



Parts Manual

Our energy working for you.™



**Power
Generation**

Generator Set **with PowerCommand Control PCC1301** **GGDB (Spec F)**

MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Cummins Power Generation nameplate.

For handy reference, insert your nameplate information in the spaces below.

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

The following symbols are used in Cummins Power Generation manuals to alert users to the potentially dangerous conditions relating to maintenance of equipment and replacement of parts. Please read and observe.

DANGER

This symbol warns of immediate hazards which will result in severe personal injury or death.

WARNING

This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.

CAUTION

This symbol refers to a hazard or unsafe practice which can result in severe personal injury or product or property damage.

PRODUCT SAFETY PRECAUTIONS

WARNING

Service and repair of Cummins Power Generation equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.

WARNING

Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.

WARNING

Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!

WARNING

Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!

Introduction

This parts catalog applies to the Cummins Power Generation standard generator model GGDB as listed in the Generator Set Data Table. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding with the same reference number in the parts list. Parts illustrations are typical. Throughout this catalog left and right sides are determined by facing the engine end (front) of the set.

Engine parts that have been modified or added by Cummins Power Generation are identified in this catalog. All other engine replacement parts must be ordered from the engine manufacturer by referring to the engine manufacturers nameplate and supplying all available information. Contact your nearest engine parts distributor for assistance in ordering replacement parts.

Replacement Engine

Cummins Power Generation Generator Model	Ford Engine Model
GGDB	LRG425I-6005-A

Replacement engines cannot be ordered from Cummins Power Generation. Order from your nearest Ford Distributor.

Generator Set Data Table

Model/ Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
16.0GGDB*	16,000	#	50	4,6,12	1 or 3	12 VDC
20.0GGDB*	20,000	#	60	4,6,12	1 or 3	12 VDC

* The specification number denotes customer requested options or deviations from the Standard model. The specification letter advances with major manufacturing changes.

Broad Range Reconnectible.

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Abbreviations

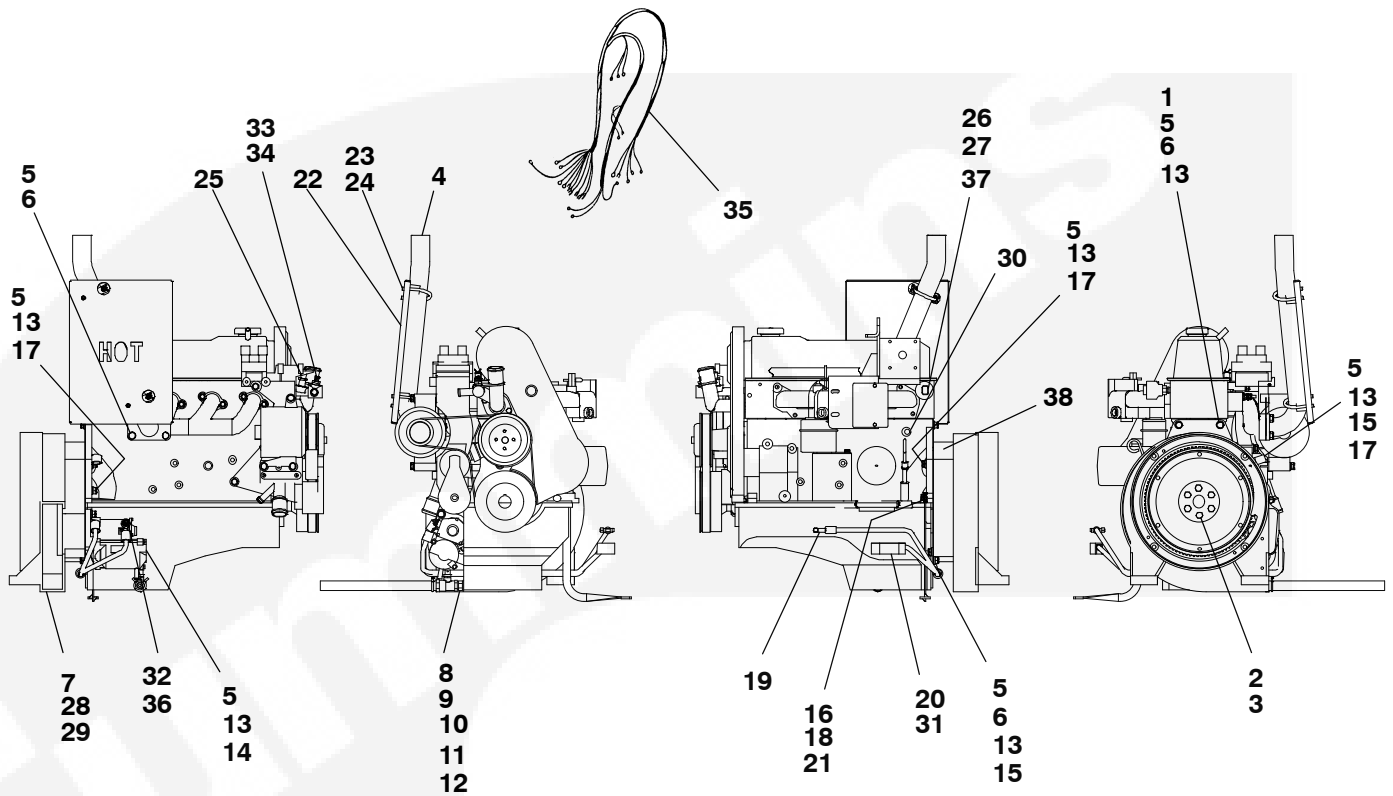
Some of the following abbreviations may be used throughout this Parts Catalog:

AC	Alternating Current	mm	Millimeter
Amp	Ampere	MOH	Mobile Off Highway
A/R	As Required	NFS	Not For Sale
AVR	Automatic Voltage Regulator	NPT	National Pipe Thread
AWG	American Wire Gauge	OD	Outside Diameter
Deg	Degree	oz.	Ounce
DC	Direct Current	PMG	Permanent Magnet Generator
EFC	Electronic Fuel Control	Ph	Phase
ET	External Tooth	PC	Printed Circuit
EIT	External/Internal Tooth	RFI	Radio Frequency Interference
GFI	Ground Fault Interrupter	RT	Right
ID	Inside Diameter	Spec	Specification
IT	Internal Tooth	Thk	Thick
IEC	International Electrotechnical Commission	UL	Underwriters Laboratories Inc.
kW	Kilowatt	UNC	Union National Coarse
LPG	Liquid Petroleum Gas	UNF	Union National Fine
LT	Left	VAC	Volts Alternating Current
M(meter Number)	Meter	VDC	Volts Direct Current
		W/(ET, IT, EIT)	With

Paint and Thread Sealant

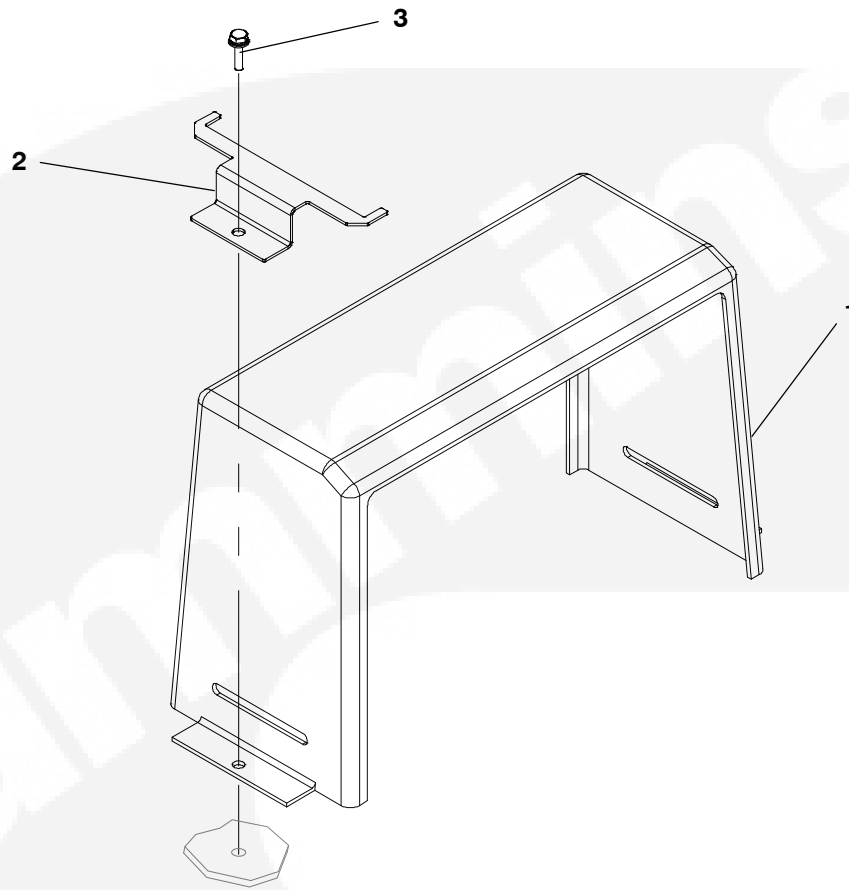
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Onan Green Enamel (Non-Metallic)	518-0601		-	Sealant, Thread (6 ml. Tube)
	525-0305	-	12 oz. Pressurized Spray Can				
	525-0306	-	Quart Can				
	525-0304	-	Gallon Can				

External Engine Parts



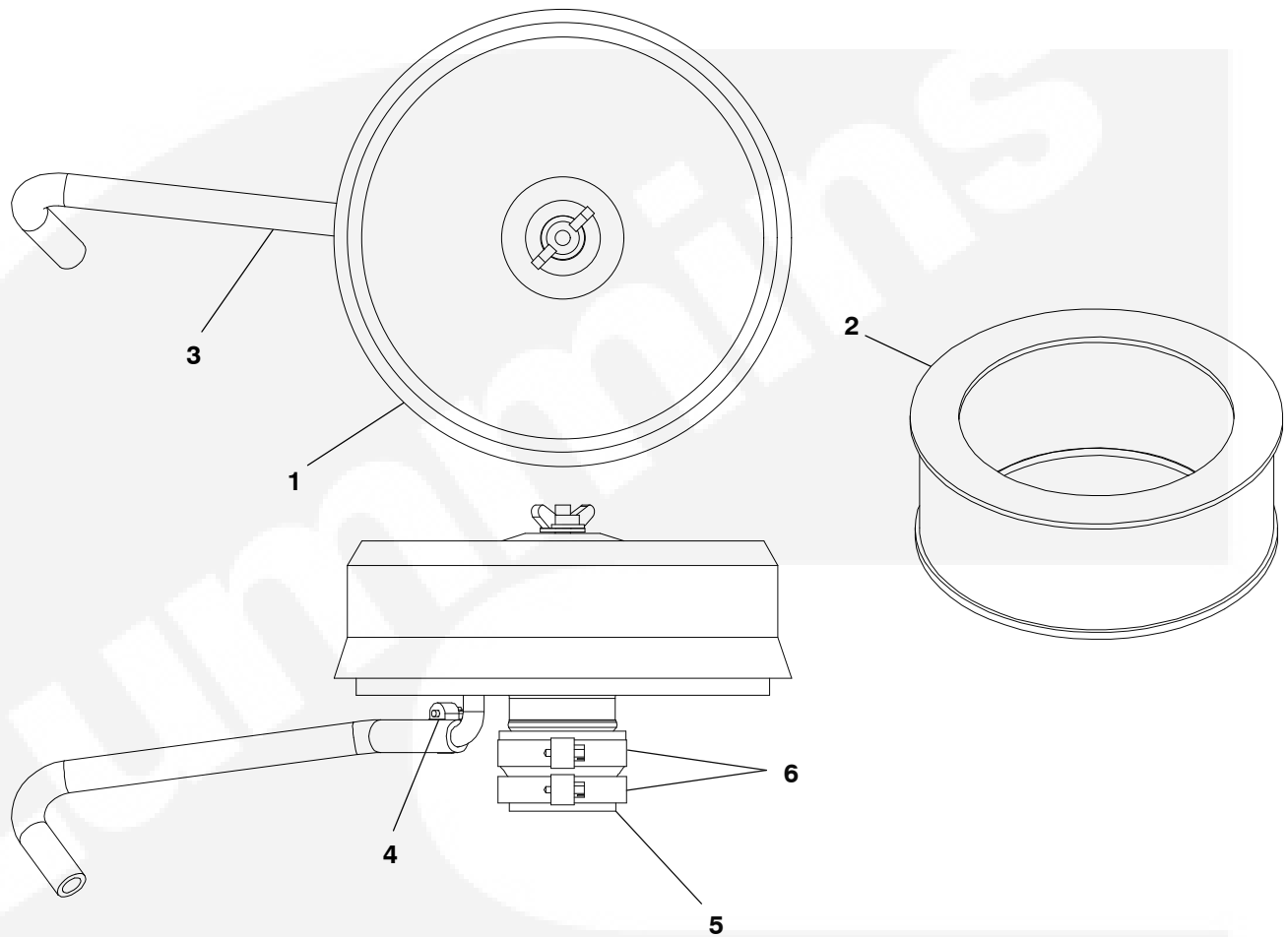
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	101-0823	1	Plate, Engine Rear	19	416-1046	1	Cable, Battery (Negative)
2	104-1951	1	Flywheel (Includes Ring Gear)	20	416-0549	1	Cable, Battery (Positive)
3	104-1944	1	Gear, Ring	21	337-0090	1	Strap, Electrical
4	155-2984	1	Tube, Exhaust	22	155-3242	1	Shield, Exhaust
5	850-2010	14	Washer, Lock – Spring	23	232-3441	4	Washer, End – Bell
6	800-2086	9	Screw, Cap – Hex Head (M10 x 1.25 x 25mm)	24	155-2715	2	Clamp, Muffler (1.75 OD Tube)
7	231-0386	1	Adapter, Generator	25	193-0529-01	1	Sensor, Temperature
8	102-1054-01	1	Adapter, Oil Drain	26	505-0007	1	Bushing, Reducer (1/4" to 1/8")
9	504-0011	1	Valve, Shut Off (1/2" x 1/2")	27	193-0444	1	Sender, Oil Pressure
10	505-0827	1	Barb, Hose (1/2 x 3/4 Hose)	28	234-0665	1	Grille, Air Outlet
11	503-0098	–	Hose (3/4" ID) – Bulk (Order by the Foot – 1 Foot Required)	29	803-0032	2	Screw, Set – Socket Head (1/4–20 x 1/4)
12	503-0197	1	Clamp, Hose	30	505-0110	1	Plug, Pipe
13	526-2120	10	Washer, Flat (M10)	31	416-1019	1	Boot, Battery – Red
14	800-2088	2	Screw, Cap – Hex Head (M10 x 1.5 x 35mm)	32	870-2055	1	Nut, Hex Flange
15	332-2634	4	Clamp, "J"	33	505-0395	1	Bushing, Reducer (3/8 x 1/8)
16	856-0010	2	Washer, Lock – ET (M10)	34	504-0198	1	Vent, Air
17	800-2089	2	Screw, Cap – Hex Head (M10 x 1.5 x 40mm)	35	166-0868	1	Harness, Wiring – Ignition
18	800-2093	2	Screw, Cap – Hex Head (M10 x 1.5 x 60mm)	36	416-1084	1	Boot, Starter – Red
				37	502-0175	1	Adapter, Pipe
				38	150-2651-01	1	Pick-Up, Magnetic

Battery Cover



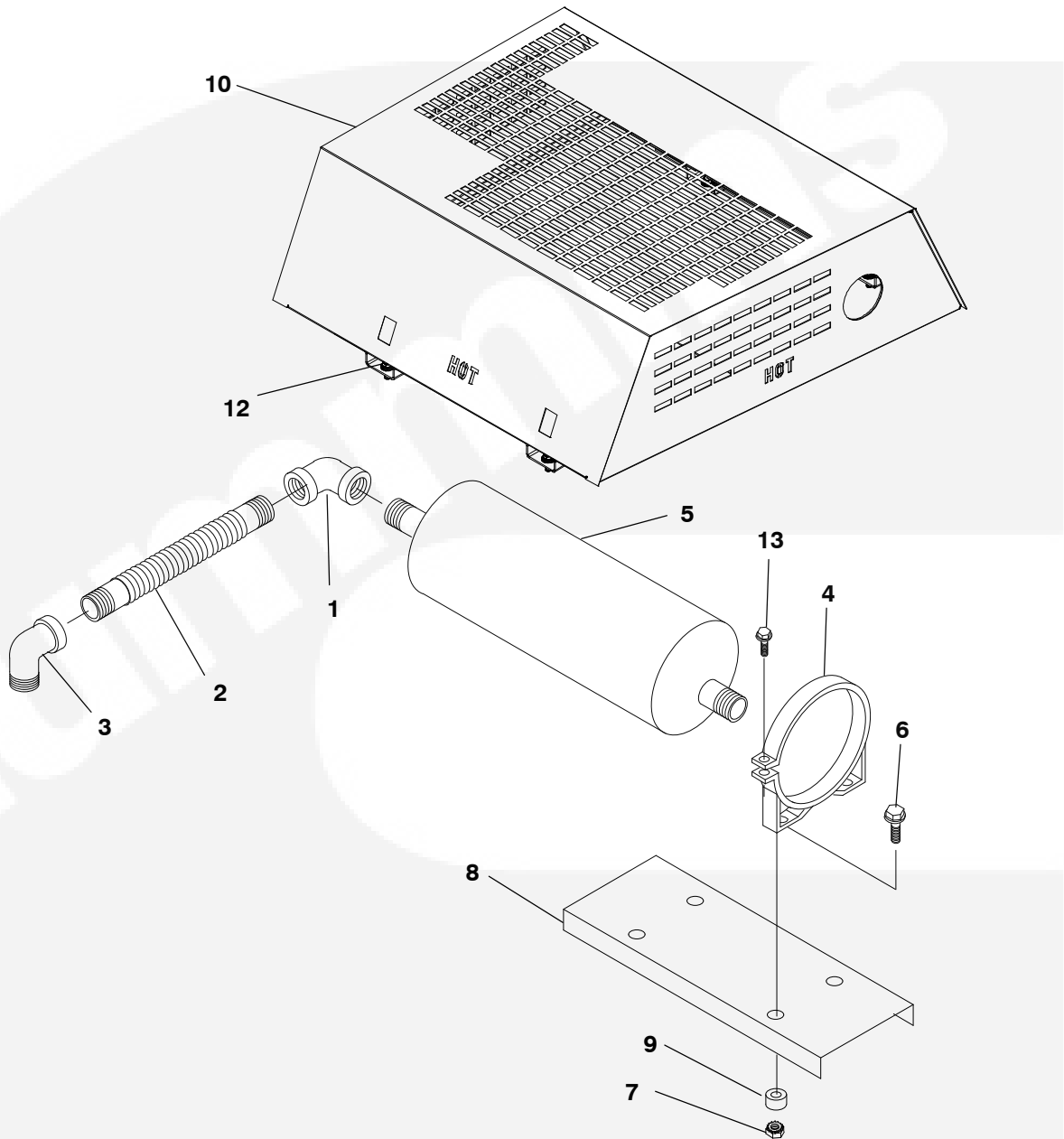
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	416-1164	1	Cover, Battery	3	821-6002-04	2	Screw, Hex Head (M6 x 1 x 20)
2	416-1165-02	2	Hold Down, Battery				

Air Cleaner



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3387-01	1	Cleaner, Air – Standard	4	503-0446	1	Clamp, Hose
2	140-3147	1	Element, Air Cleaner	5	503-2587	1	Hose, Air – Reducing
3	503-1606	-	Hose, Air Cleaner – Bulk (Order By The Foot – 2 Feet Required)	6	503-1144	2	Clamp, Hose

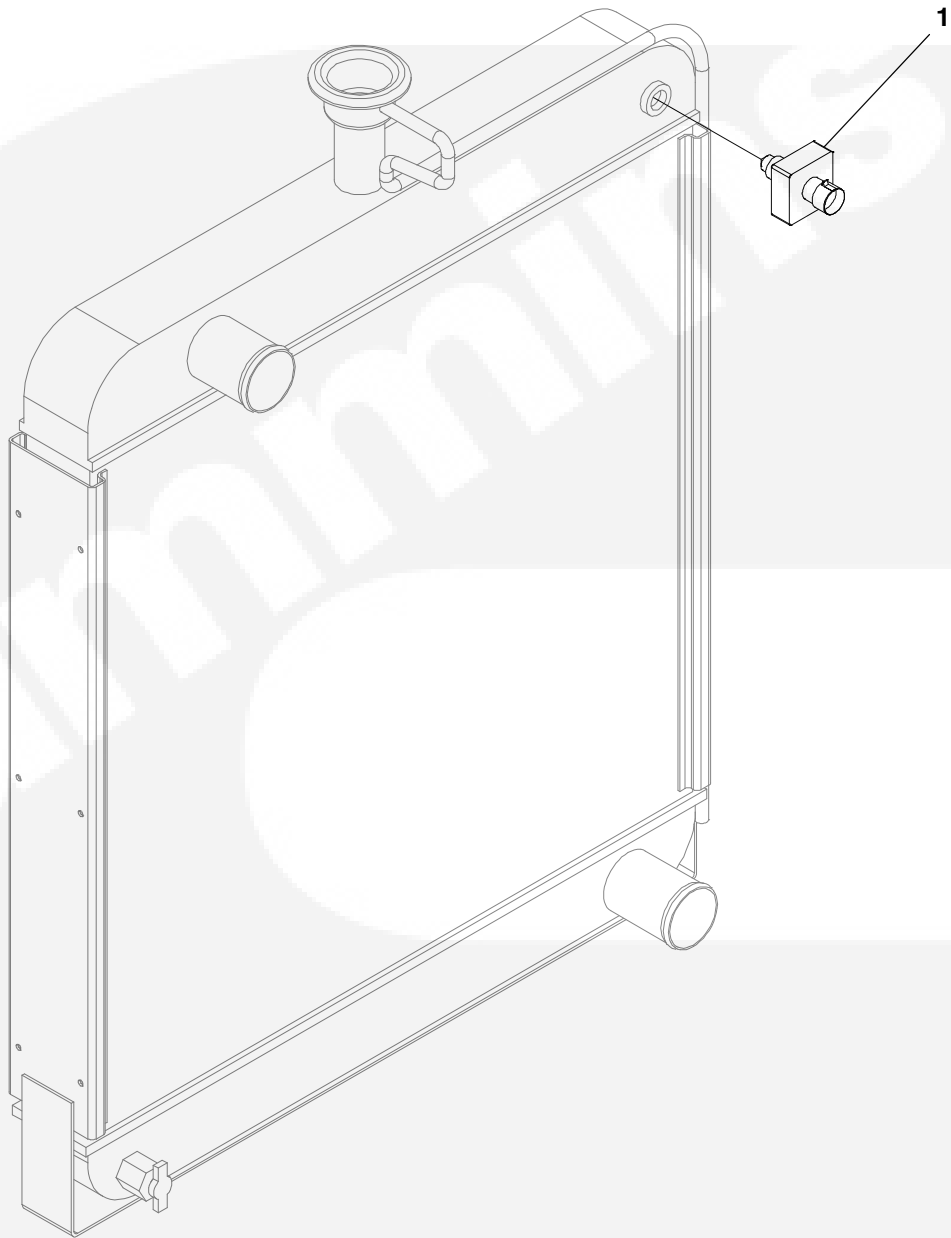
Muffler Housed Sets



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0043	1	Elbow, 90° (1-1/2")
2	155-0927	1	Tube, Exhaust
3	505-0462	1	Elbow, Street 90° (1-1/2")
4	140-0078	2	Bracket, Air Cleaner
5	155-0360-01	1	Muffler, Critical
6	821-2050	4	Screw, Lock (M8 x 1.25 x 40)
7	870-2055	4	Nut, Lock (M8 x 1.25)
8	155-1924	1	Shield, Heat - Muffler
9	155-1926	4	Spacer, Muffler

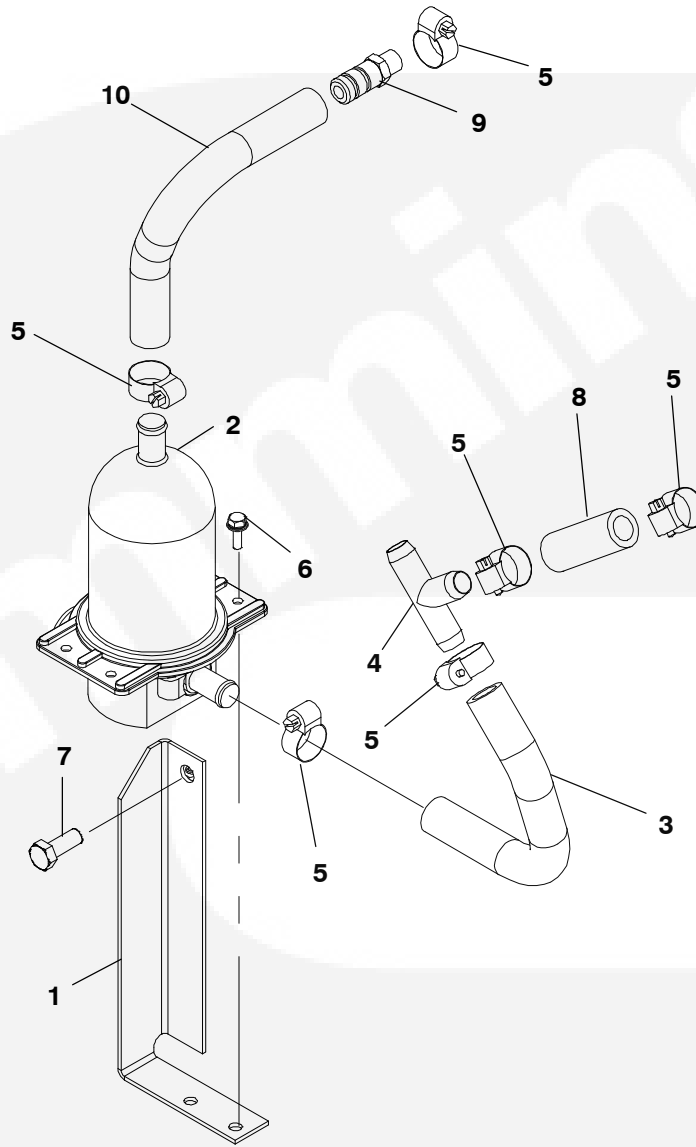
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	155-3328-01	1	Guard, Muffler (A024)
11	130-4848	-	Insulation, Exhaust - Bulk (Order by the Foot - 5 Feet Required) (A024) (Not Illustrated)
12	821-6007-02	4	Screw, Hex Head - Stainless Steel (M8 x 1.25 x 20) (A024)
13	812-0157	2	Screw, Machine - Round Head (1/4-20 x 1-3/4)

Low Coolant Level Sensor



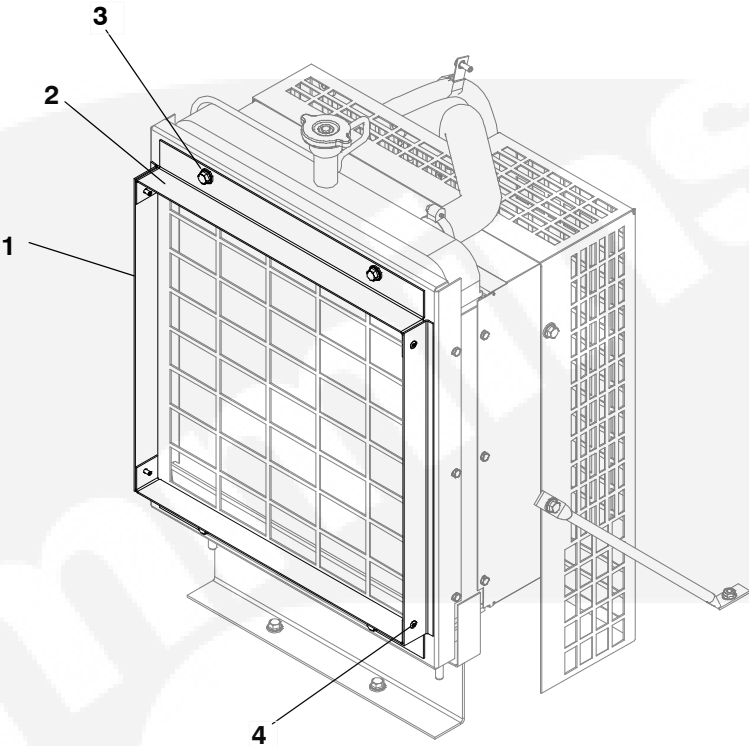
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0558	1	Sensor, Level				

Coolant Heater



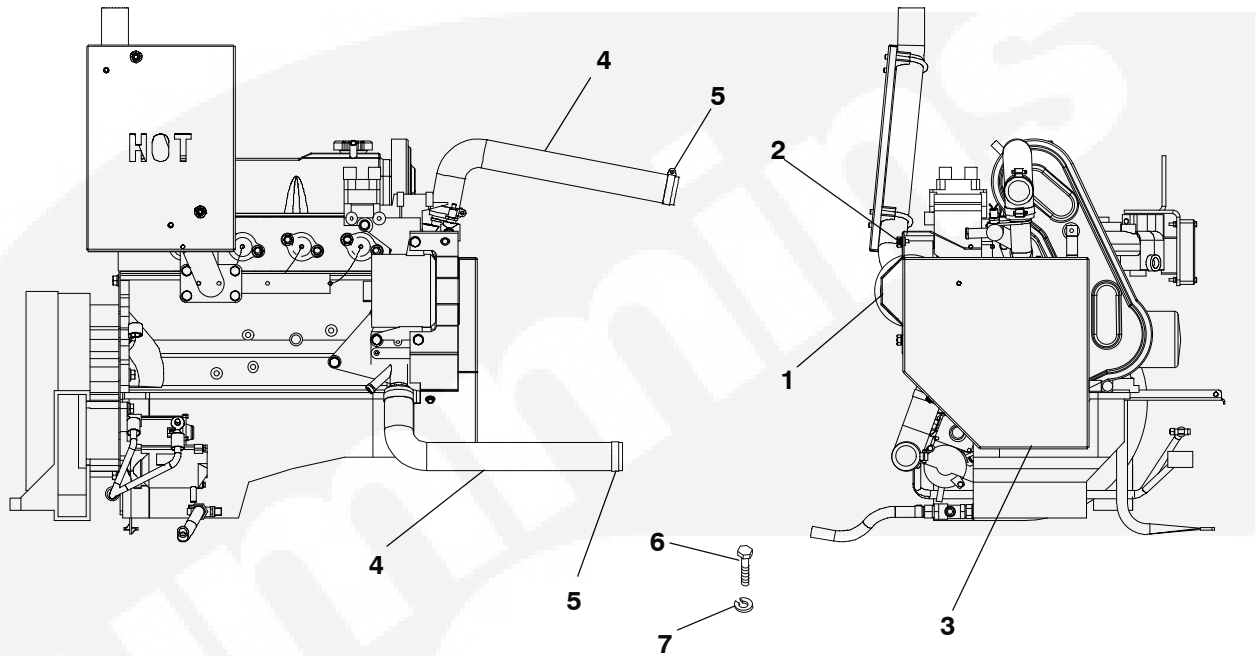
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0624	1	Bracket, Heater	7	821-2060	1	Screw, Self-Locking – Hex Washer Head (M10 x 1.5 x 20)
2	333-0588-01	1	Heater, Engine Coolant 120 Volt	8	503-0386	–	Hose, Engine Coolant – Bulk (Order by the Foot – 1 Foot Required)
	333-0588-02	1	208/240 Volt	9	502-0613	1	Adapter, Hose
3	503-0386	–	Hose, Engine Coolant – Bulk (Order by the Foot – 1 Foot Required)	10	503-0386	–	Hose, Engine Coolant – Bulk (Order by the Foot – 1 Foot Required)
4	502-0870	1	Tee				
5	503-0183	6	Clamp, Hose				
6	821-6002-03		Screw, Hex Head (M6 x 1 x 16)				

Duct Adapter



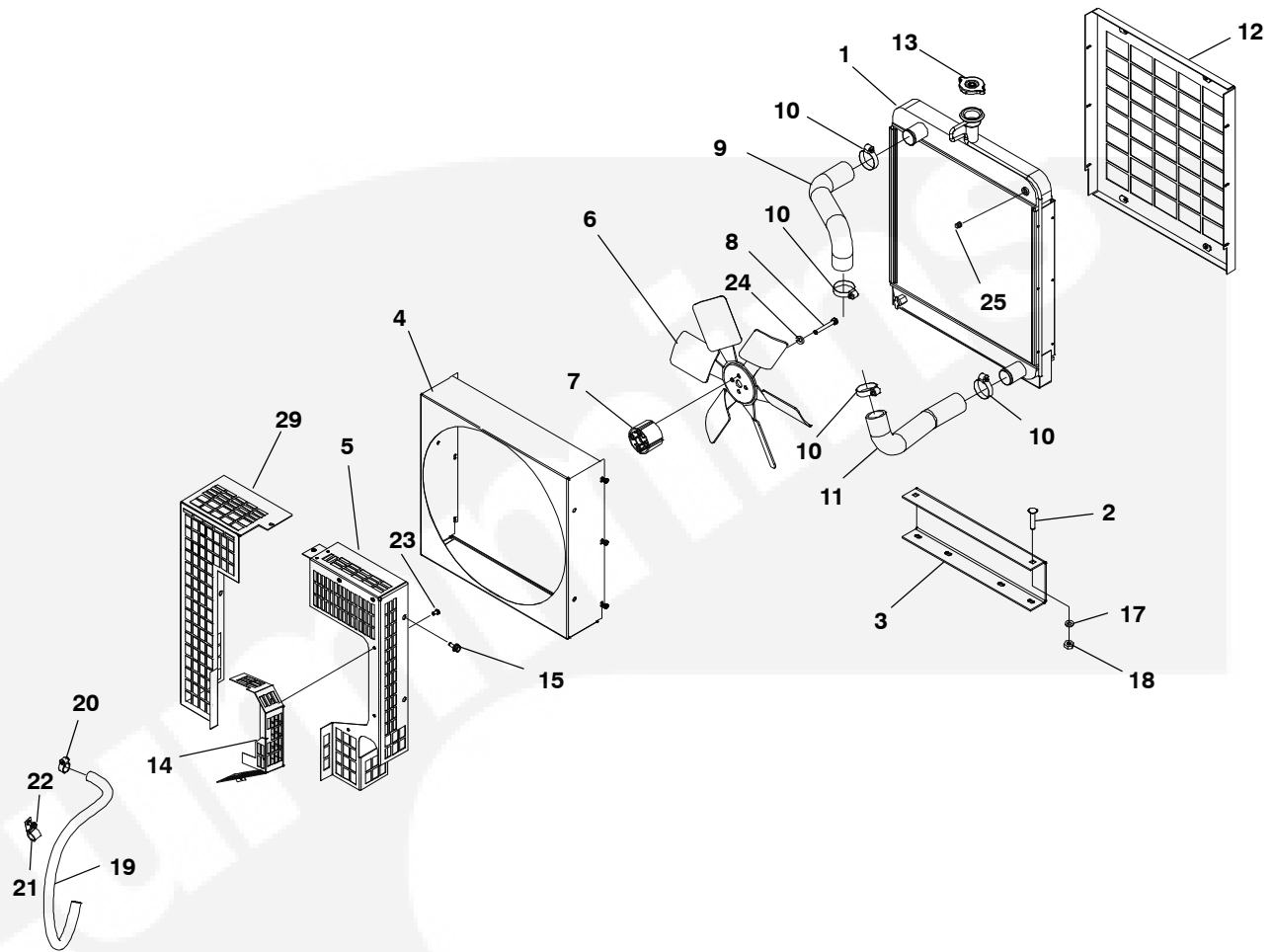
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4835	2	Adapter, Duct – Side	3	821-6003-02	4	Screw, Hex Head SEMS (M8 x 1.25 x 20)
2	130-4834	2	Adapter, Duct – Top and Bottom	4	818-0231-02	4	Rivet, Pop

Remote Radiator



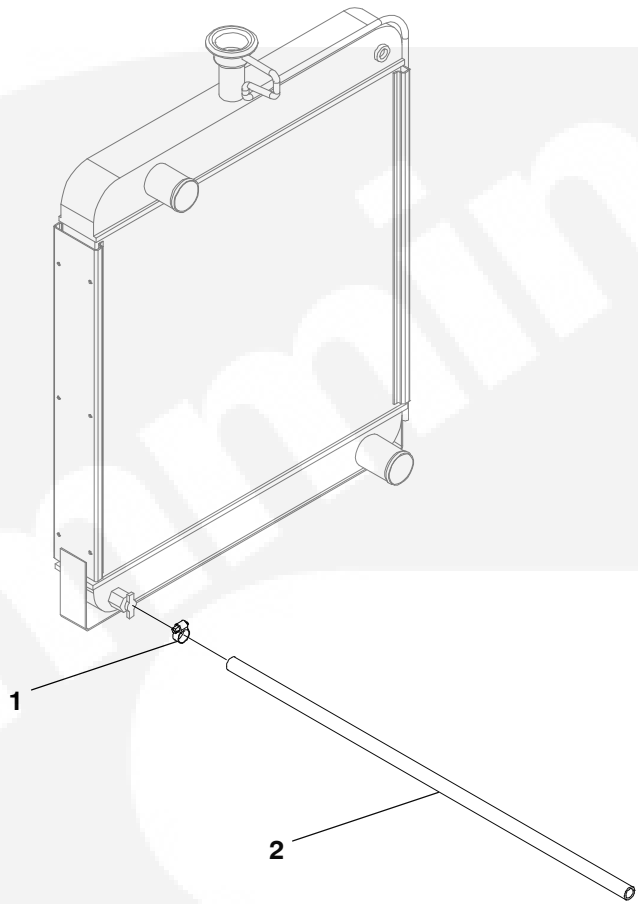
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-2268-02	1	Guard, Alternator Belt	5	503-1138	4	Clamp, Hose
2	821-2032	2	Screw, Lock (M6 x 1 x 12)	6	800-2056	4	Screw, Cap – Hex Head (M8 x 1.25 x 16)
3	191-2263	1	Guard, Belt	7	850-2008	4	Washer, Lock (M8)
4	503-0869	2	Hose, Radiator				

Radiator



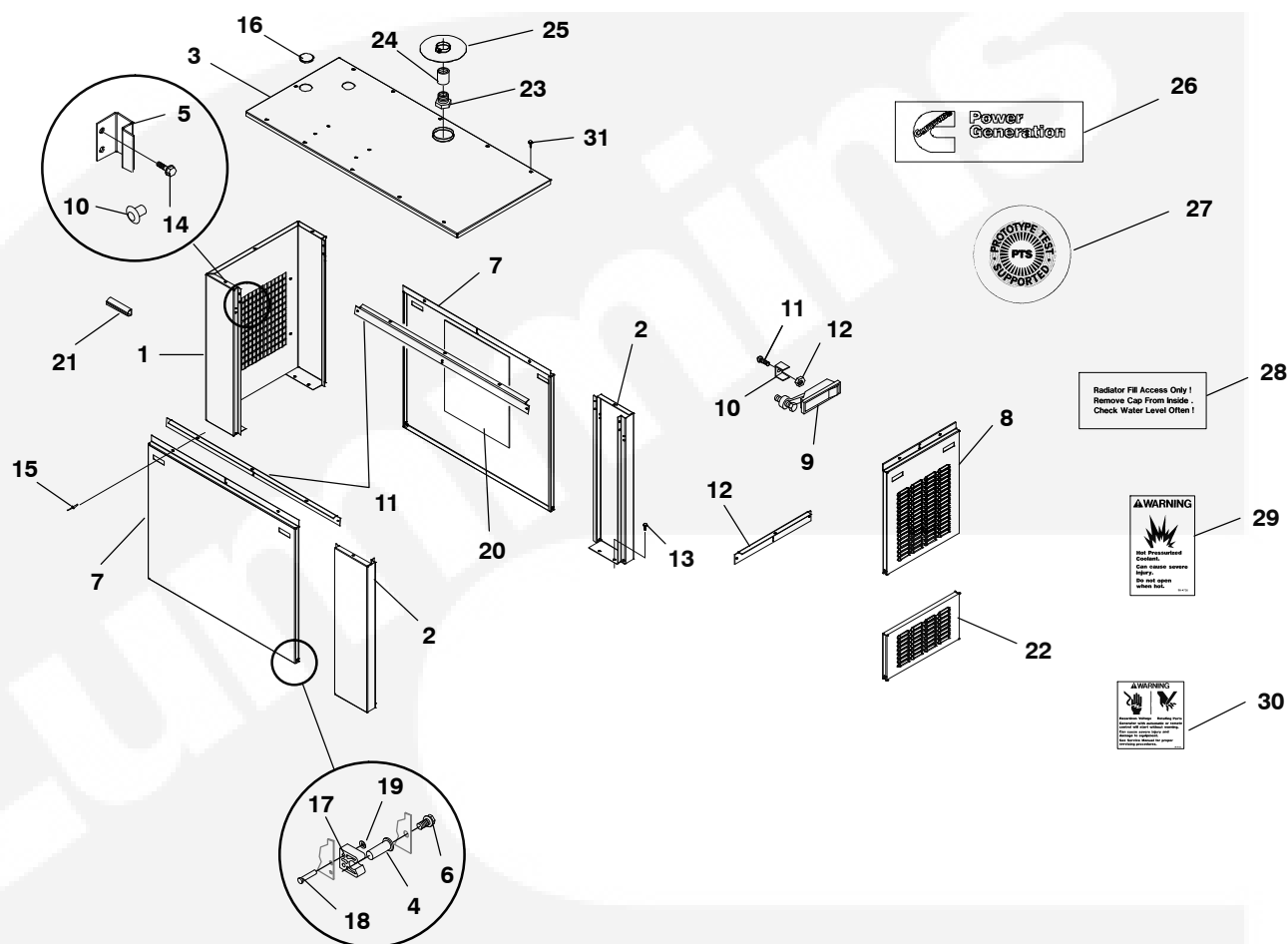
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3552	1	Radiator (Includes Overflow Tube)	15			Screw, Hex Head(M8 x 1.25 x 20)
2	816-0152	2	Bolt, Carriage (3/8-16 x 2)		821-6003-02	5	Housed Sets
3	130-4796	1	Mount, Radiator		821-6003-02	6	Unhoused Sets
4	130-5003-02	1	Shroud, Fan	16	870-0257	1	Nut, Self-Locking (5/16-18)
5	130-4959-02	1	Guard, Fan (LH)	17	526-0141	2	Washer, Flat (15/32)
6	130-4792	1	Fan, Engine	18	870-0281	2	Nut, Hex (3/8-16)
7	130-4770-03	1	Spacer, Fan	19			Hose, Engine Coolant
8	800-2070	4	Screw, Cap - Hex Head (M8 x 1.25 x 85)		503-2185-01	1	Without Coolant Heater
9	503-2085	1	Hose, Radiator Inlet (Top)		503-2185	1	With Coolant Heater
10	503-0429	4	Clamp, Hose	20	503-0183	2	Clamp, Hose
11	503-2092	1	Hose, Radiator Outlet (Bottom)	21	332-2634	1	Clamp, J
12	130-4833	1	Guard, Radiator (Unhoused Sets)	22	821-2033	1	Screw, Flange (M6 x 1 x 12)
13	130-3721-01	1	Cap, Radiator - 15 PSI	23	818-0231-02 A/R		Rivet, Pop (3/16)
14	191-2276-02	1	Guard, Alternator Belt	24	850-2008	4	Washer, Lock (M8)
				25	502-0153	1	Plug, 1/4" Hex Head Pipe
				26	130-4958-02	1	Guard, Fan (RH)

Radiator Drain



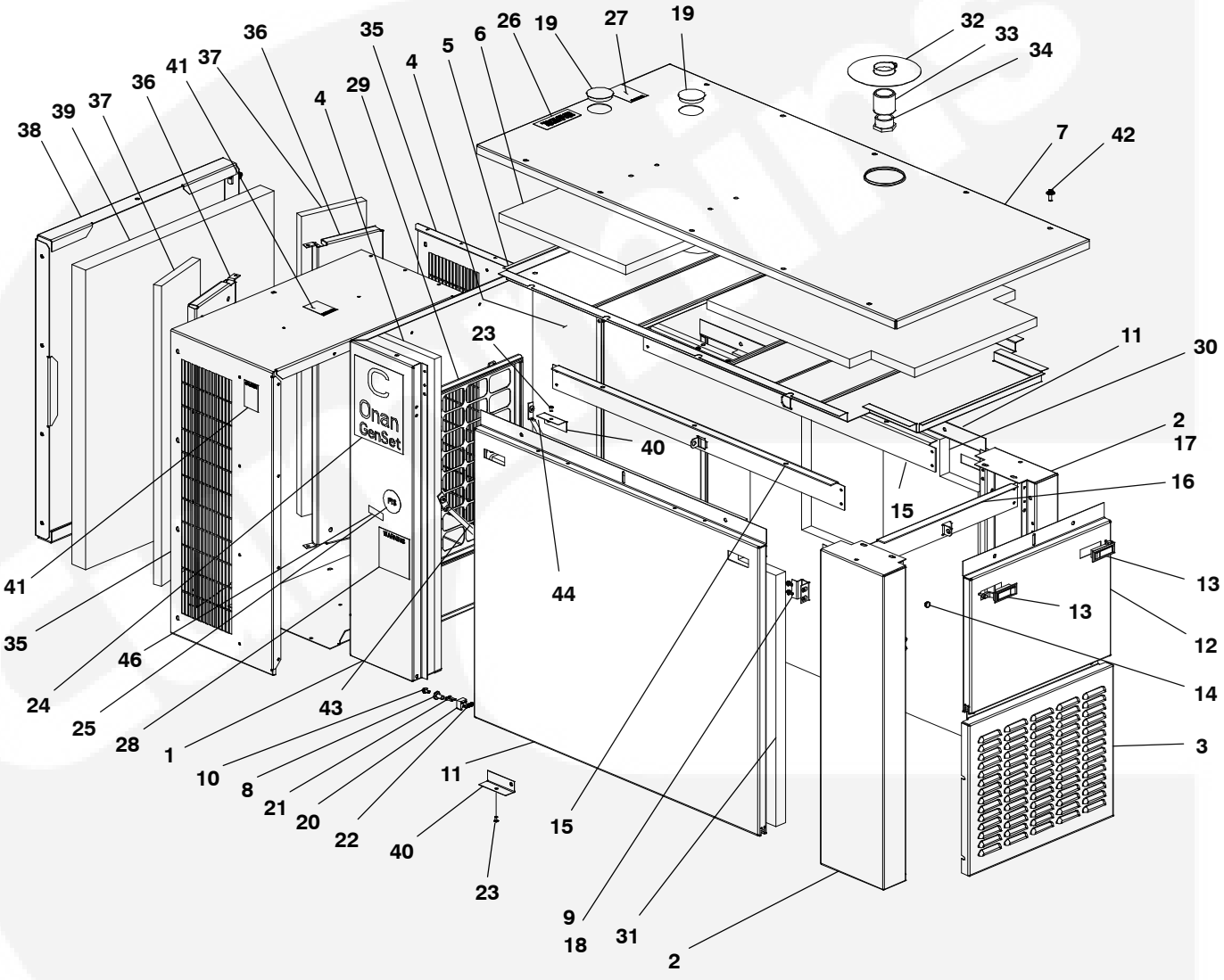
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0685	1	Clamp, Hose	2	503-0103	-	Hose, Radiator Drain – Bulk (Order by the Foot – 2 Feet Required)

Housing Standard Weather Protective



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-6097	1	Panel, Front – Housing	17	405-1872	6	Clip, Door
2	405-6167	2	Post, Corner	18	818-1174	12	Rivet, Dome
3	405-6168	1	Roof, Housing	19	526-0003	12	Washer, Flat (3/16)
4	870-0258	6	Nut, Weld Stud	20	128-0154-02	1	Insulation, Foam
5	405-6164	6	Catch, Housing Door	21	895-0387	4	Seal, Weather (18.5")
6	821-0010	6	Screw, Lock Head (1/4-20 x 1/2)	22	405-6202	1	Panel, Housing
7	405-6162	2	Door, Housing (Side)	23	505-0025	1	Bushing, Reducer (1-1/2 x 1-1/4)
8	405-6163	1	Door, Housing (Rear)	24	505-0032	1	Coupling, Pipe (1-1/2)
9	406-0615	6	Latch, Door	25	405-1889	1	Shield, Rain – Used With Muffler Installation
10	405-4932	6	Bumper, Housing	26	098-7902-02	2	Label, Logo
11	405-6169	2	Bracket, Housing	27	098-4500	2	Label, Prototype Tested
12	405-6170	1	Bracket, Housing	28	098-5429	1	Label, Coolant Fill
13	821-6003-02	12	Screw, Hex Head (M8 x 1.25 x 20)	29	098-4730	1	Label, Warning
14	821-6001-02	12	Screw, Hex Head (M5 x .8 x 12)	30	098-4732	2	Label, Warning
15	818-0231-02	12	Rivet, Pop	31	821-6007-02	10	Screw, Hex Head (M8 x 1.25 x 20)
16	517-0138-09	2	Plug, Hole				

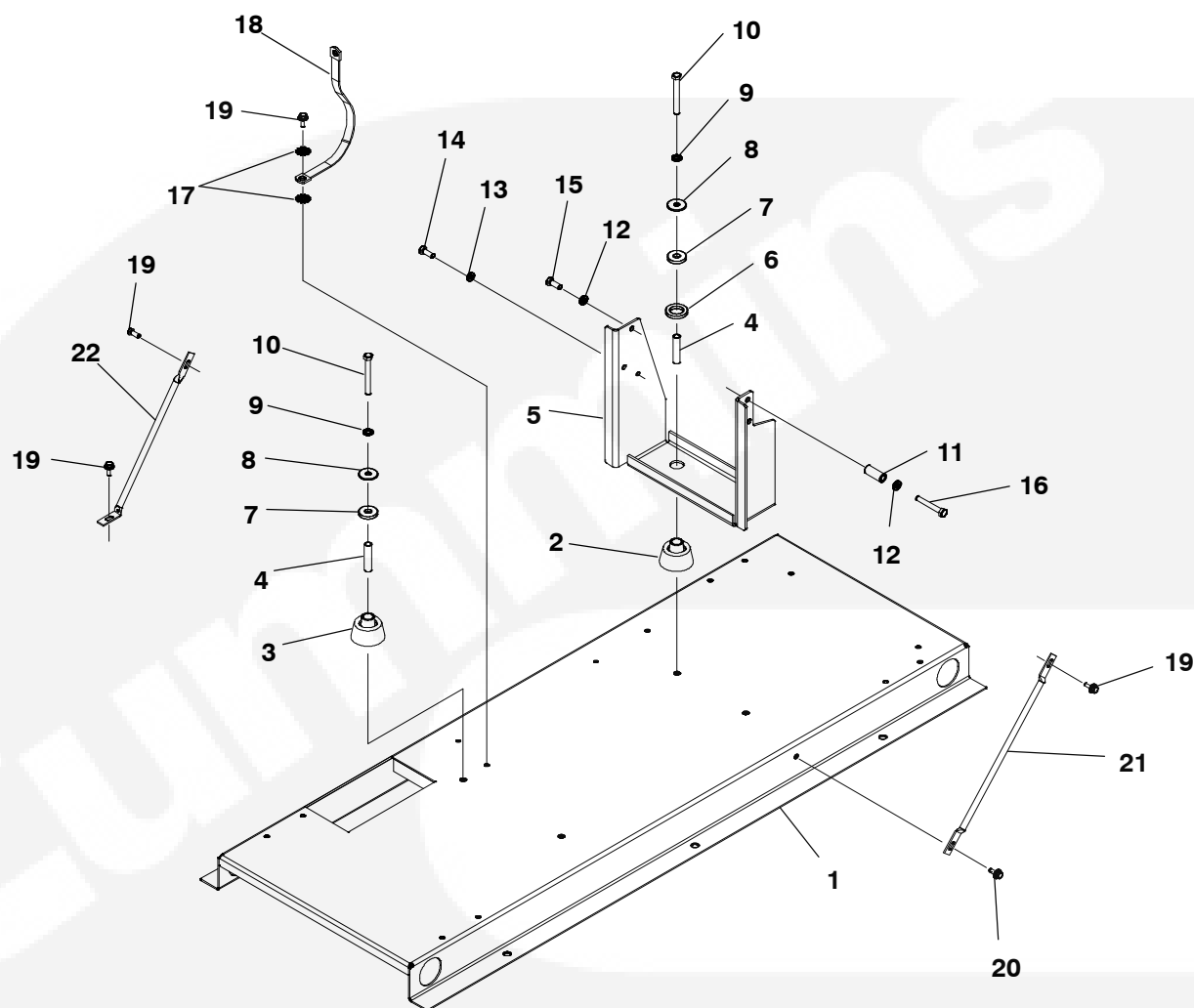
Housing Quiet Site Second Stage



Housing Quiet Site Second Stage

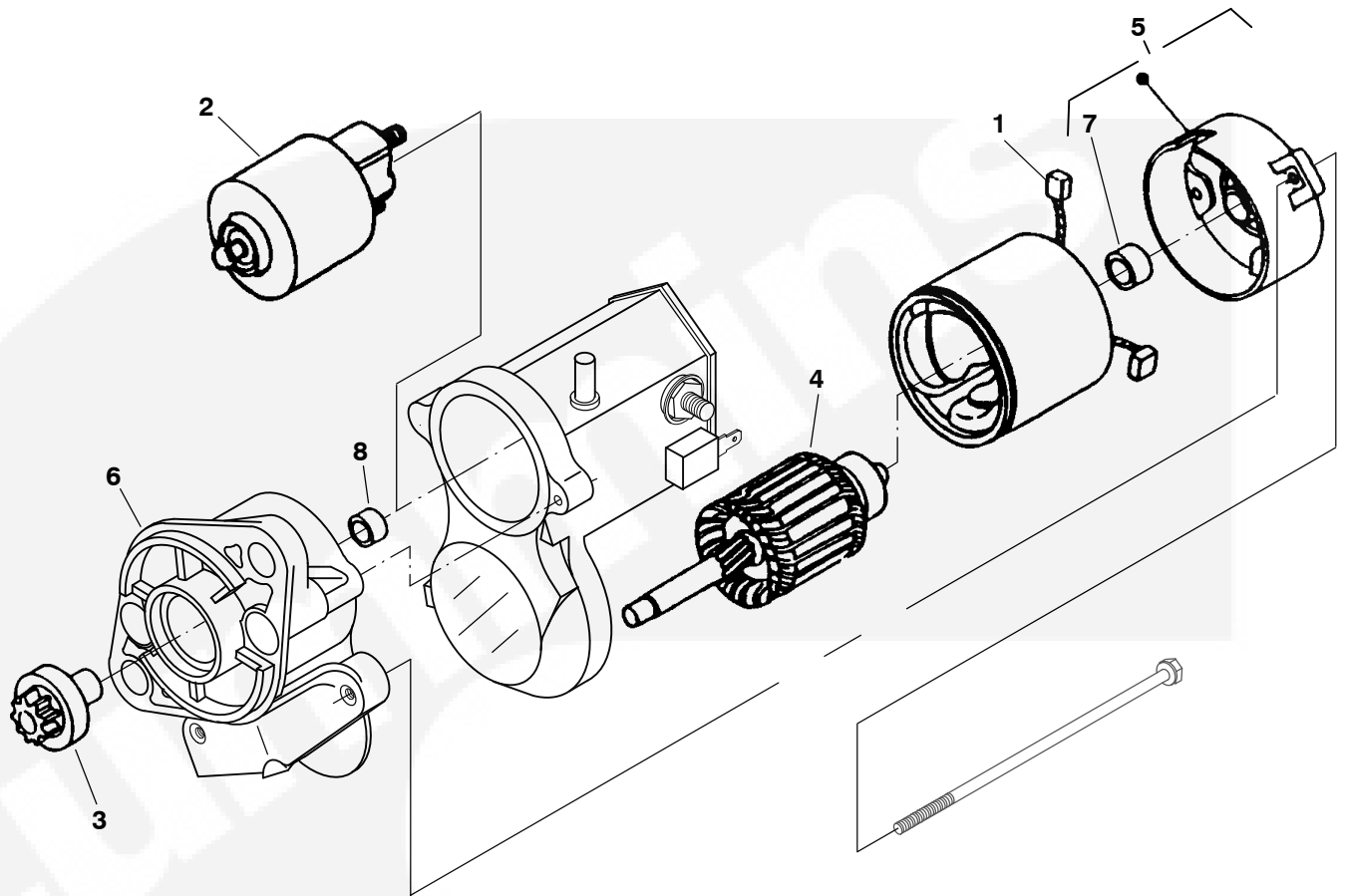
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-6097	1	Panel, Front – Housing	25	098-4500	2	Label, Prototype
2	405-6167	2	Post, Corner	26	098-5429	1	Label, Coolant Fill
3	405-6202	1	Panel, Housing	27	098-4730	1	Label, Warning
4	405-6195	2	Panel, Insulation	28	098-4732	2	Label, Warning
5	405-6201-02	1	Support, Insulation	29	895-0387	4	Seal, Weather
6	405-6199	1	Panel, Insulation	30	405-6196	1	Panel, Insulation
7	405-6168	1	Roof, Housing	31	405-6197	1	Panel, Insulation
8	870-0258	6	Nut, Weld	32	405-1889	1	Shield, Rain
9	405-6164	6	Catch, Housing Door	33	505-0032	1	Coupling, Pipe
10	821-0010	6	Screw, Self-Locking – Hex Washer Head (1/4-20 x .50)	34	505-0025	1	Bushing, Reducer (1-1/4 x 1-1/2)
11	405-6162	2	Door, Housing	35	405-6229-02	2	Duct, Air Outlet
12	405-6163	1	Door, Housing	36	405-6231-02	2	Duct, Air Outlet
13	406-0615	6	Latch, Door	37	405-6236	2	Panel, Insulation
14	405-4932	6	Bumper, Housing	38	405-6228-02	1	Duct, Air Outlet
15	405-6169	2	Bracket, Housing	39	405-6235	1	Panel, Insulation
16	405-6170	1	Bracket, Housing	40	405-6200-02	12	Support, Insulation
17	821-6003-02	14	Screw, Hex Head (M8 x 1.25 x 20)	41	098-7451	3	Label, Caution
18	821-6001-02	12	Screw, Hex Head (M5 x 0.8 x 12)	42	821-6007-02	20	Screw, Hex Head (M8 x 1.25 x 20)
19	517-0138-09	2	Plug, Hole	43	130-5116-02	1	Brace, Radiator
20	405-1872	6	Clip, Door	44	130-5117-02	1	Brace, Radiator
21	818-1174	12	Rivet, Drive (5/32)	45	503-0977	1	Clamp (Used with Item 44 and Radiator Brace – Not Illustrated)
22	526-0003	12	Washer, Flat (3/16)				
23	818-0231-02	58	Rivet, Pop	46	098-7868	1	Label
24	098-7902-02	2	Label, Logo				

Skid



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-5760-06	1	Skid	12	526-0174	4	Washer, Flat (3/8)
2	402-0285	2	Cushion, Vibration Isolation (Engine End)	13	526-0122	1	Washer, Flat (5/16)
3	402-0286	2	Cushion, Vibration Isolation (Generator End)	14	800-2057	1	Screw, Cap - Hex Head (M8 x 1.25 x 20)
4	402-0290	4	Bushing, Spacer	15	800-2086	2	Screw, Cap - Hex Head (M10 x 1.5 x 25.4)
5	403-4255	1	Bracket, Front - Engine Mounting	16	800-2095	2	Screw, Cap - Hex Head (M10 x 1.5 x 70)
6	403-1830	2	Spacer	17	856-0009	2	Washer, Lock - EIT (5/16)
7	402-0282	4	Cushion, Mounting - Rubber (1-1/2 x 1/4)	18	337-0090	1	Strap, Electrical
8	526-0014	4	Washer, Flat (7/16)	19	821-6003-02	4	Screw, Hex Head (M8 x 1.25 x 20)
9	850-0055	4	Washer, Lock (7/16)	20	821-6007-02	1	Screw, Hex Head - Stainless Steel (M8 x 1.25 x 20)
10	800-0081	4	Screw, Cap - Hex Head (7/16-14 x 3.5)	21	130-1793	1	Brace, Radiator
11	403-3795	1	Spacer, Engine Support	22	130-6481-02	1	Stiffener, Radiator

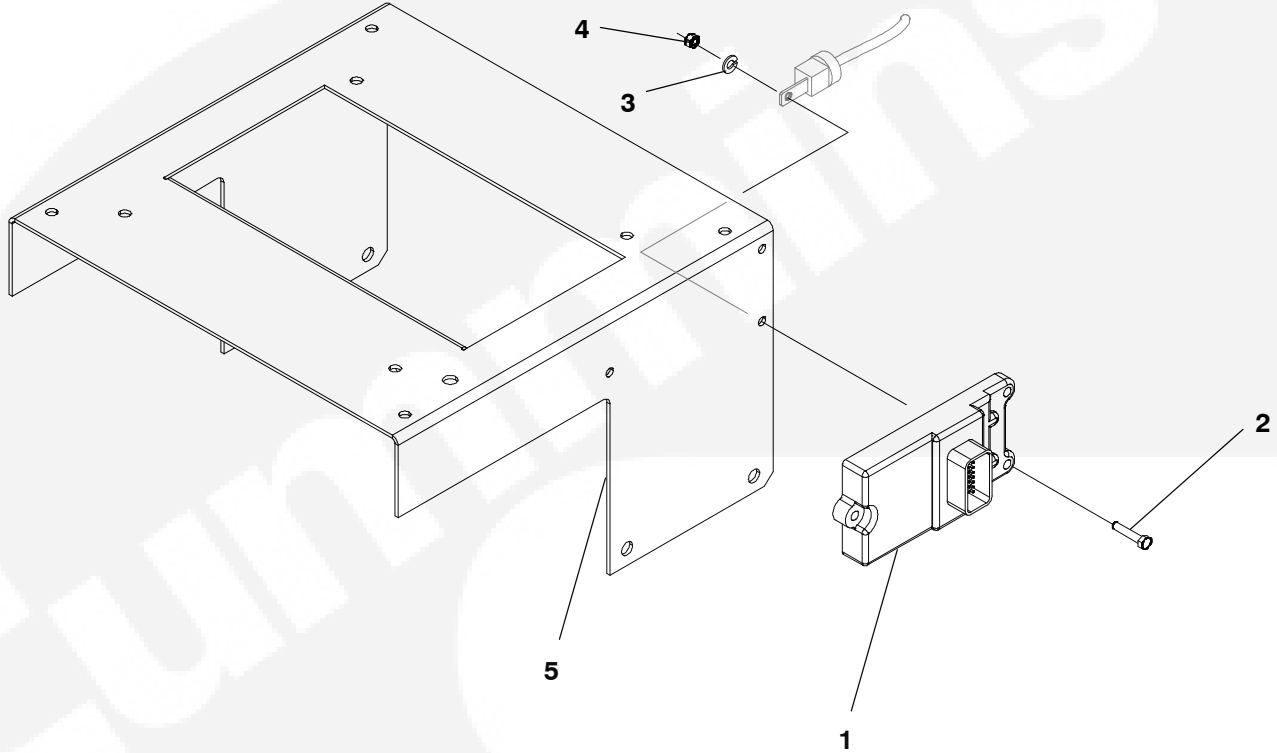
Starter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-2213	1	Starter – Complete (1.4kW) (B1)
1	191-2215	1	Kit, Starter Brush
2	191-2216	1	Switch
3	191-2217	1	Clutch
4	191-2218	1	Armature

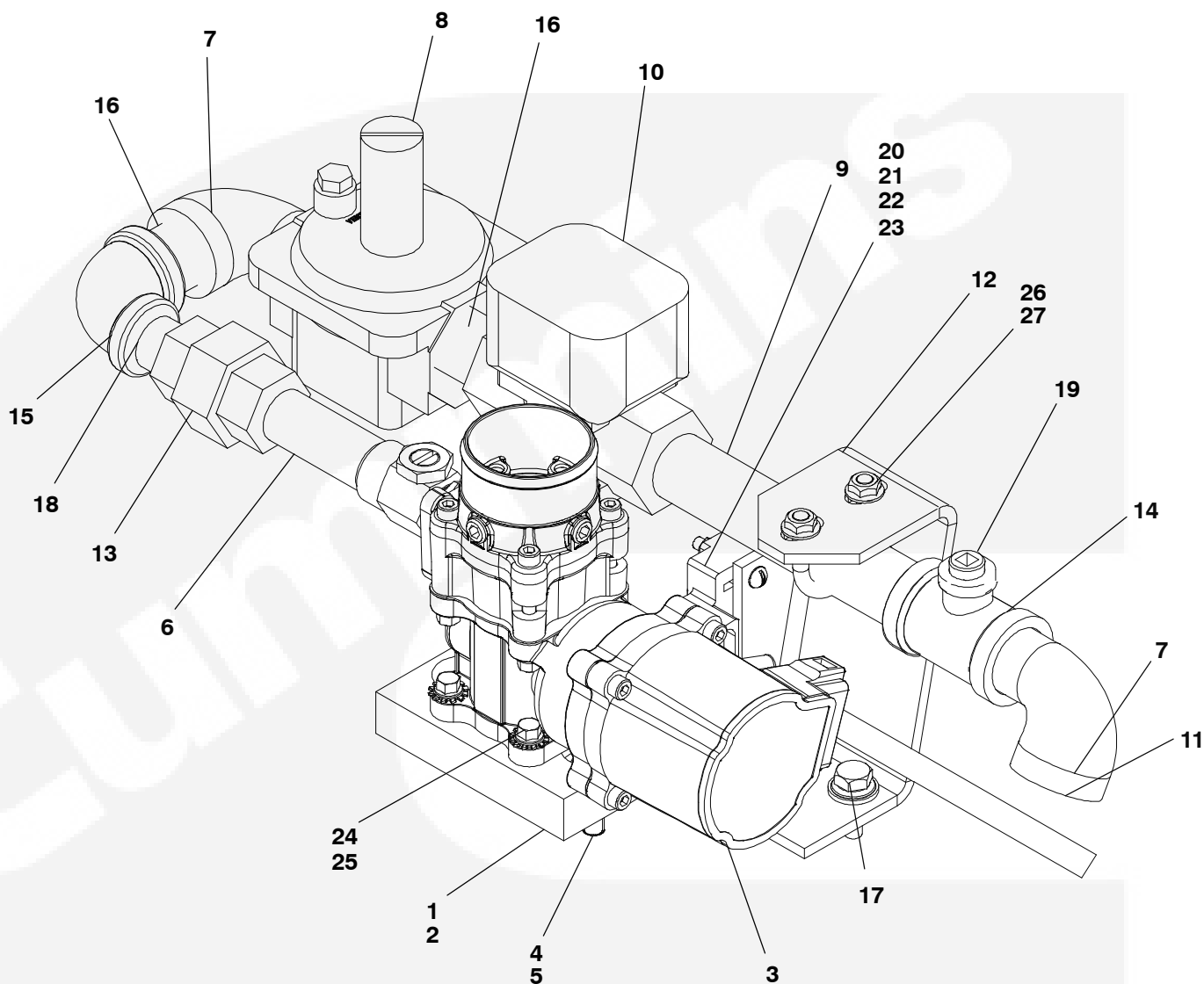
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	191-2219	1	Frame, Commutator End
6	191-2220	1	Housing
7	191-2221	1	Bearing, Commutator End
8	191-2222	1	Bearing, Pinion End

Ignition Module



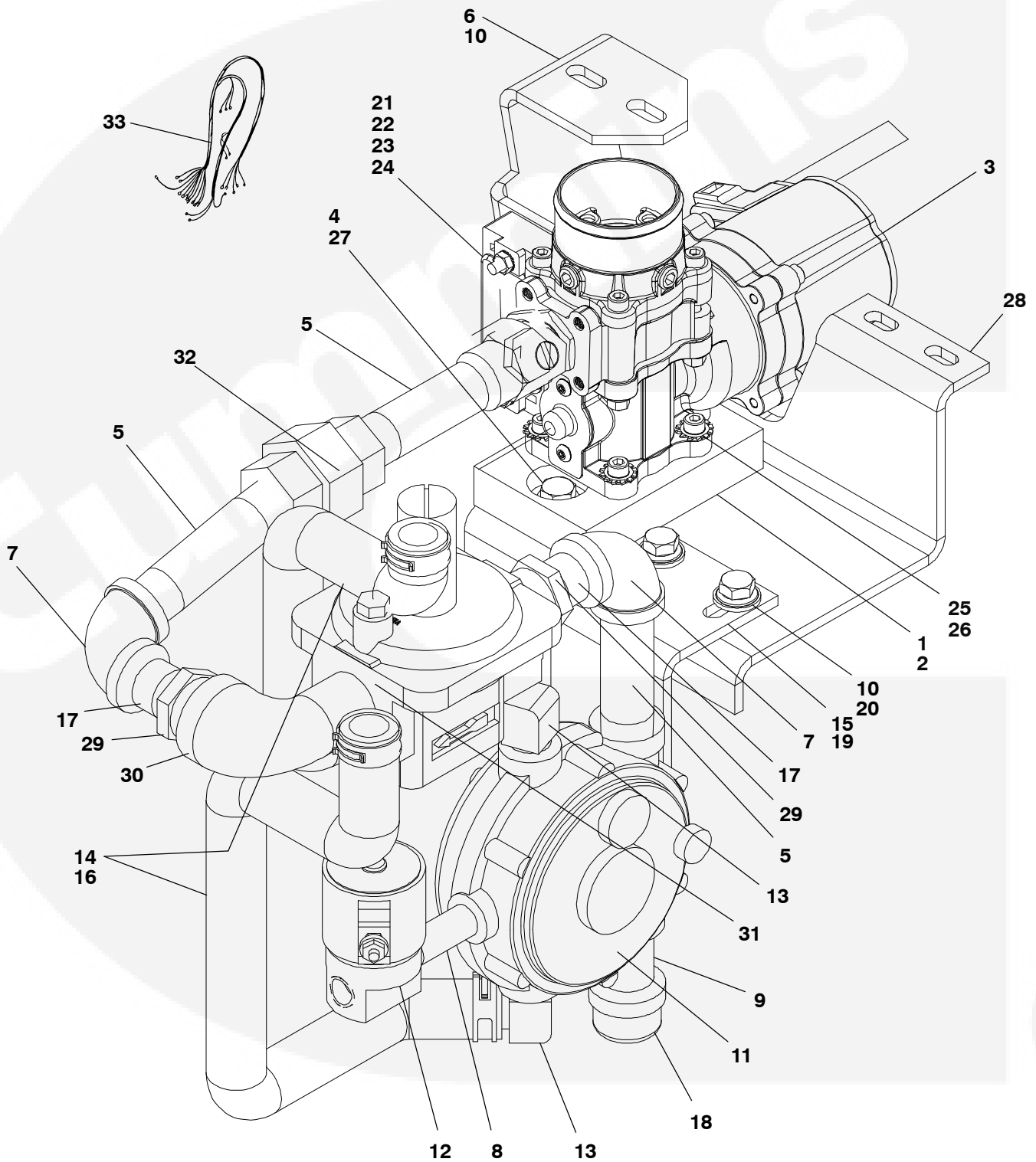
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	166-0884-01	1	Module, Ignition	3	850-2005	1	Washer, Lock – Spring (M5)
2	800-2011	3	Screw, Hex Flange Head – Thread Forming (M5 x 0.8 x 25)	4	860-2006	1	Nut, Hex (M5 x 0.8)
				5	319-4970-02	1	Bracket, Control Box – Saddle

Fuel System Natural Gas or Propane Vapor



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3193	1	Adapter, Intake	15	505-2279	1	Elbow, Pipe (3/4 x 1/2)
2	145-0724	1	Gasket, Carburetor	16	505-2278	2	Nipple, Pipe (3/4 x 1.5)
3	146-0847	1	Body, Throttle	17	821-6003-02	3	Screw, Hex Head (M8 x 1.25 x 20)
4	800-2059	2	Screw, Hex Head (M8 x 1.25 x 30)	18	505-0106	1	Nipple, Short (1/2 x 1.5)
5	526-0399-60	2	Washer, Flat (M8)	19	505-0180	1	Plug, Flush (1/4)
6	505-0002	1	Nipple, Pipe (1/2 x 3.00)	20	193-0545	1	Sensor, Map
7	505-0051	2	Elbow, Street (3/4)	21	813-0107	2	Screw, Hex Head (#10 x 1.25)
8	148-1231	1	Regulator	22	870-0131	2	Nut, Hex (#10)
9	505-0754	1	Nipple, Pipe (3/4 x 6.00)	23	503-2159-01	1	Hose, Vacuum
10	307-0312-01	1	Valve, Solenoid	24	725-1007	4	Screw, Cap - Socket Head (M5 x 20)
11	517-0094	1	Plug, Hole	25	856-0003	4	Washer - W/EIT
12	148-1295-02	1	Bracket, Fuel System	26	518-0739	1	Clamp, "U"
13	505-0150	1	Union, Ground Joint (1/2)	27	870-0212	2	Nut, Hex - Flange (1/4-20)
14	505-1496	1	Tee, Reducing (3/4 x 3/4 x 1/4)				

Fuel System Propane Liquid

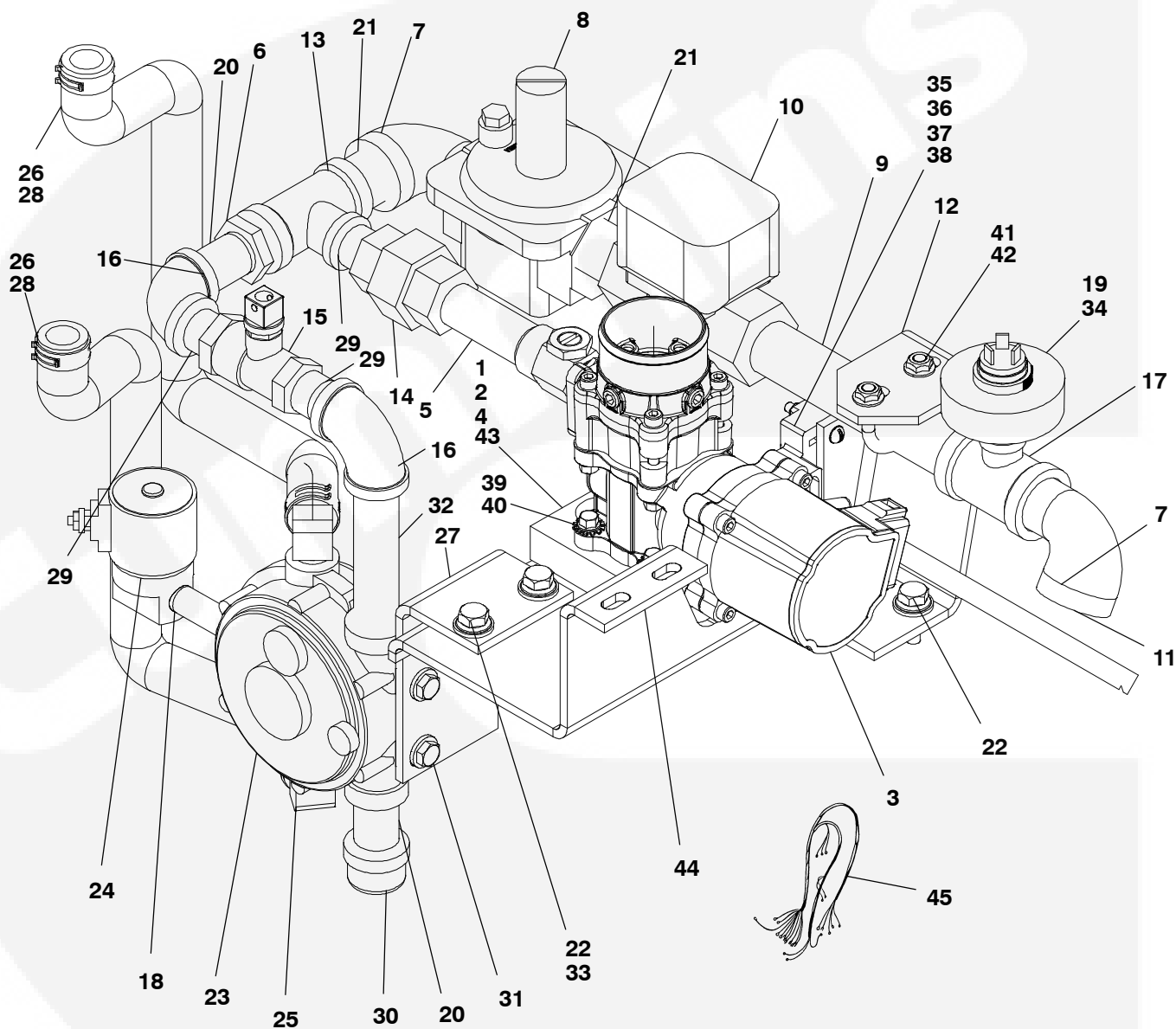


Fuel System Propane Liquid

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3193	1	Adapter, Intake	17	505-0106	2	Nipple, Short (1/2 x 1.5)
2	145-0724	2	Gasket, Carburetor	18	505-0158	1	Cap, Pipe (1/2)
3	146-0847	1	Body, Throttle	19	526-0399-13	2	Washer, Flat (1/4)
4	526-0399-60	2	Washer, Flat (M8)	20	870-2065-03	2	Nut, Hex - Flange (M8)
5	505-0002	3	Nipple, Pipe (1/2 x 3.00)	21	193-0545	1	Sensor, Map
6	148-1295-02	1	Bracket, Fuel System	22	813-0107	2	Screw, Hex Head (#10 x 1.25)
7	505-0040	2	Elbow, Pipe - 90° (1/2)	23	870-0131	2	Nut, Hex (#10)
8	505-0071	1	Nipple (1/4 x 2.00)	24	503-2159-01	1	Hose, Vacuum
9	505-0210	1	Nipple, Pipe (1/2 x 2.00)	25	725-1007	4	Screw, Cap - Socket Head (M5 x 20)
10	821-6003-02	5	Screw, Hex Head (M8 x 1.25 x 20)	26	856-0003	4	Washer - W/EIT
11	148-1298	1	Regulator	27	800-2060	2	Screw, Hex Head (M8 x 1.25 x 35)
12	307-0268-01	1	Valve, Solenoid	28	148-1296-02	1	Bracket, Fuel System
13	502-0942	2	Connector, Hose - 90°	29	505-0021	2	Bushing, Reducer (3/4)
14	503-0131	4	Clamp, Hose	30	505-0051	1	Elbow, Street (3/4)
15	148-1297-02	1	Bracket, Fuel System	31	148-1231	1	Regulator
16	503-0386	-	Hose, Flex - Water - Bulk (Order by the Foot - 8 Feet Required)	32	505-0150	1	Union, Ground Joint (1/2)
				33	338-4719	1	Harness, Extension

Fuel System

Natural Gas or Propane Liquid With Automatic Changeover



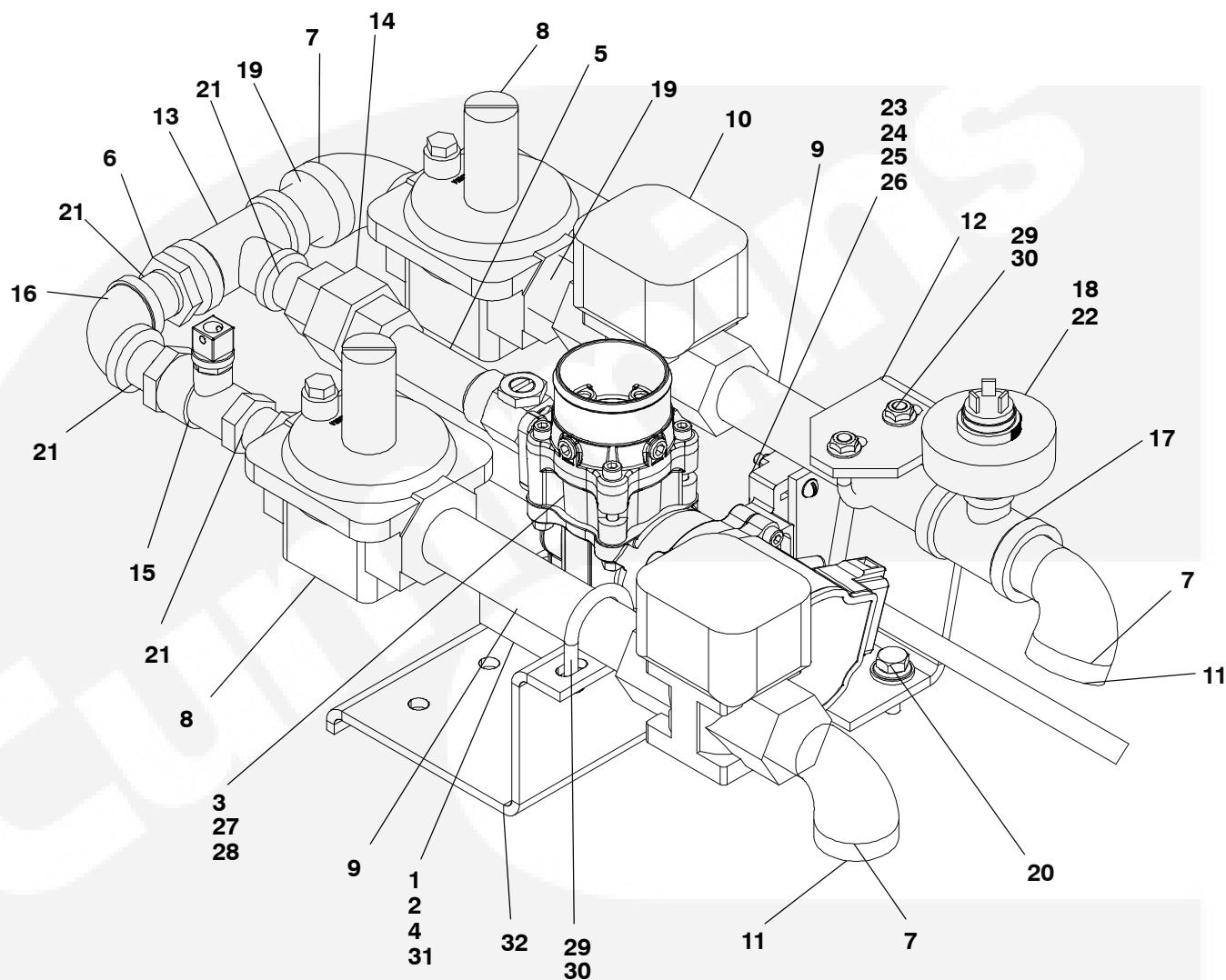
Fuel System

Natural Gas or Propane Liquid With Automatic Changeover

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3193	1	Adapter, Intake	25	502-0942	2	Connector, Hose – 90°
2	145-0724	2	Gasket, Carburetor	26	503-0131	4	Clamp, Hose
3	146-0847	1	Body, Throttle	27	148-1297-02	1	Bracket, Fuel System
4	526-0399-60	2	Washer, Flat (M8)	28	503-0386	–	Hose, Flexible – Water – Bulk (Order by the Foot – 8 Feet Required)
5	505-0002	1	Nipple, Pipe (1/2 x 3.00)	29	505-0106	3	Nipple, Short (1/2 x 1.5)
6	505-0021	1	Bushing, Reducer (3/4)	30	505-0158	1	Cap, Pipe (1/2)
7	505-0051	2	Elbow, Street (3/4)	31	526-0399-13	2	Washer, Flat (1/4)
8	148-1231	1	Regulator	32	505-2289	1	Nipple, Pipe (1/2 x 4)
9	505-0754	1	Nipple, Pipe (3/4 x 6.00)	33	870-2065-03	2	Nut, Hex – Flange (M8)
10	307-0312-01	1	Valve, Solenoid	34	505-0007	1	Bushing, Reducer (1/4 x 1/8)
11	517-0094	1	Plug, Hole	35	193-0545	1	Sensor, Map
12	148-1295-02	1	Bracket, Fuel System	36	813-0107	2	Screw, Hex Head (#10 x 1.25)
13	505-0167	1	Tee, Reducing (3/4 x 3/4 x 1/2)	37	870-0131	2	Nut, Hex (#10)
14	505-0150	1	Union, Ground Joint (1/2)	38	503-2159-01	1	Hose, Vacuum
15	504-0011	1	Valve (1/2)	39	725-1007	4	Screw, Cap – Socket Head (M5 x 20)
16	505-0040	2	Elbow, Pipe – 90° (1/2)	40	856-0003	4	Washer – W/EIT
17	505-1496	1	Tee, Reducing (3/4 x 3/4 x 1/4)	41	518-0739	1	Clamp, “U”
18	505-0071	1	Nipple (1/4 x 2)	42	870-0212	2	Nut, Hex – Flange (1/4-20)
19	309-0669-01	1	Switch, Low Pressure	43	800-2060	2	Screw, Hex Head (M8 x 1.25 x 35)
20	505-0210	2	Nipple, Pipe (1/2 x 2)	44	148-1296-02	1	Bracket, Fuel System
21	505-2278	2	Nipple, Pipe (3/4 x 1.5)	45	338-4719	1	Harness, Extension
22	821-6003-02	5	Screw, Hex Head (M8 x 1.25 x 20)				
23	148-1298	1	Regulator				
24	307-0268-01	1	Valve, Solenoid				

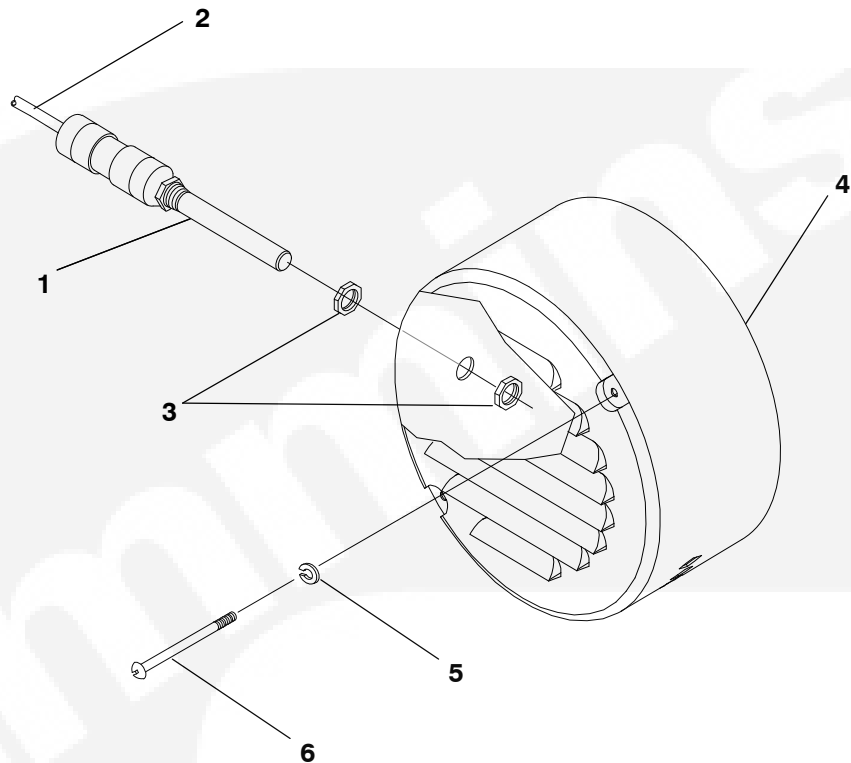
Fuel System

Natural Gas or Propane Vapor With Automatic Changeover



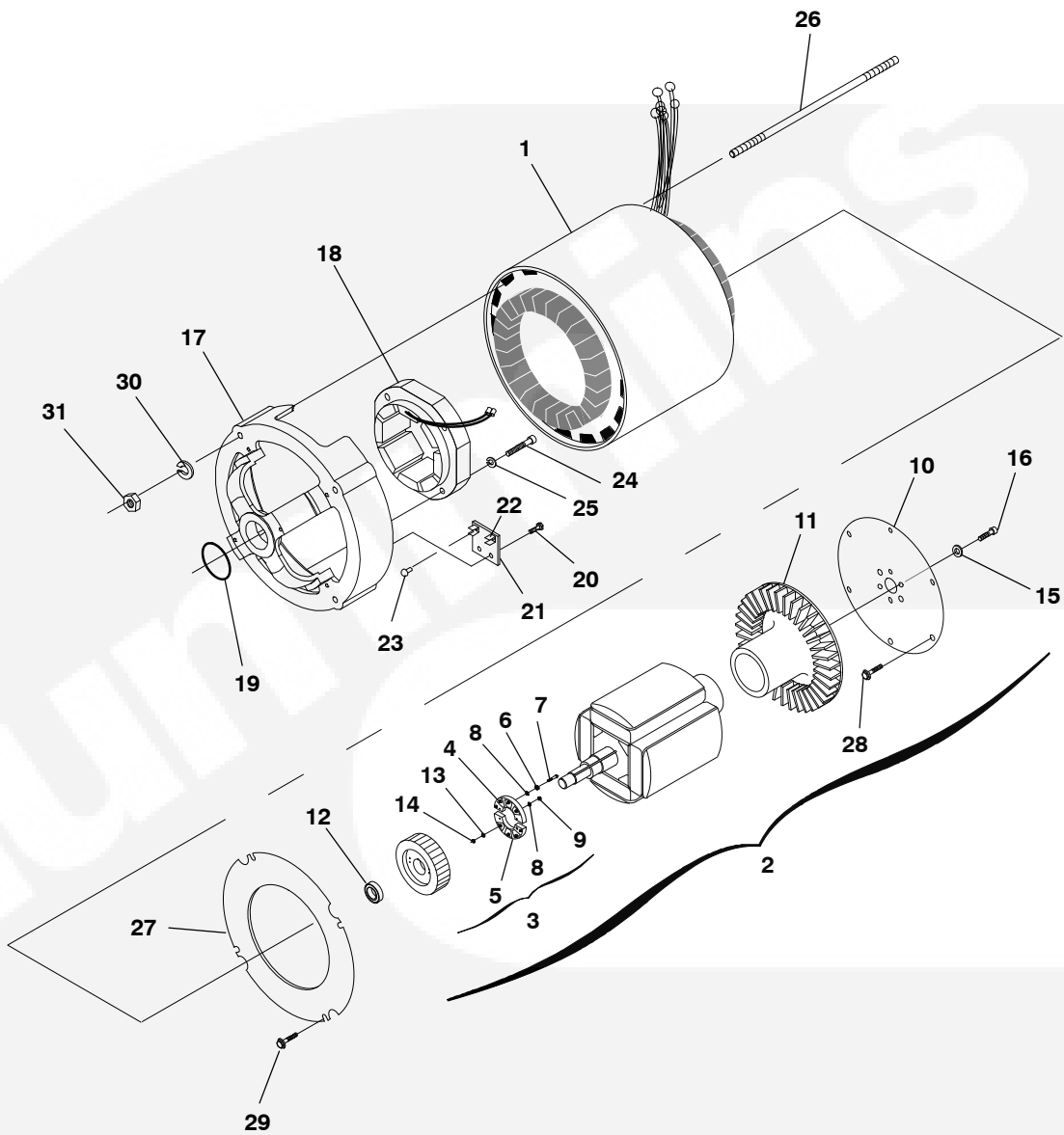
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-3193	1	Adapter, Intake	19	505-2278	2	Nipple, Pipe (3/4 x 1.5)
2	145-0724	2	Gasket, Carburetor	20	821-6003-02	3	Screw, Hex Head (M8 x 1.25 x 20)
3	146-0847	1	Body, Throttle	21	505-0106	4	Nipple, Short (1/2 x 1.5)
4	526-0399-60	2	Washer, Flat (M8)	22	505-0007	1	Bushing, Reducer (1/4 x 1/8)
5	505-0002	1	Nipple, Pipe (1/2 x 3.00)	23	193-0545	1	Sensor, Map
6	505-0021	2	Bushing, Reducer (3/4)	24	813-0107	2	Screw, Hex Head (#10 x 1.25)
7	505-0051	3	Elbow, Street (3/4)	25	870-0131	2	Nut, Hex (#10)
8	148-1231	2	Regulator	26	503-2159-01	1	Hose, Vacuum
9	505-0754	2	Nipple, Pipe (3/4 x 6.00)	27	725-1007	4	Screw, Cap – Socket Head (M5 x 20)
10	307-0312-01	2	Valve, Solenoid	28	856-0003	4	Washer – W/EIT
11	517-0094	2	Plug, Hole	29	518-0739	2	Clamp, "U"
12	148-1295-02	1	Bracket, Fuel System	30	870-0212	4	Nut, Hex – Flange (1/4-20)
13	505-0167	1	Tee, Reducing (3/4 x 3/4 x 1/2)	31	800-2060	2	Screw, Hex Head (M8 x 1.25 x 35)
14	505-0150	1	Union, Ground Joint (1/2)	32	148-1296-02	1	Bracket, Fuel System
15	504-0011	1	Valve (1/2)				
16	505-0040	1	Elbow, Pipe – 90° (1/2)				
17	505-1496	1	Tee, Reducing (3/4 x 3/4 x 1/4)				
18	309-0669-01	1	Switch, Low Pressure				

Generator Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	333-0184	1	Heater, Generator (Includes Heater Cord)	5	850-0040	2	Washer, Lock – Split (1/4)
2	333-0228	1	Cord, Heater	6	812-0167	2	Screw, Round Head (1/4-20 x 6")
3	331-0041	2	Nut, Lock (1/2)				
4			Cover, End Bell				
	234-0993	1	Sets With Generator Heater				
	234-0498	1	Sets Without Generator Heater				

Generator



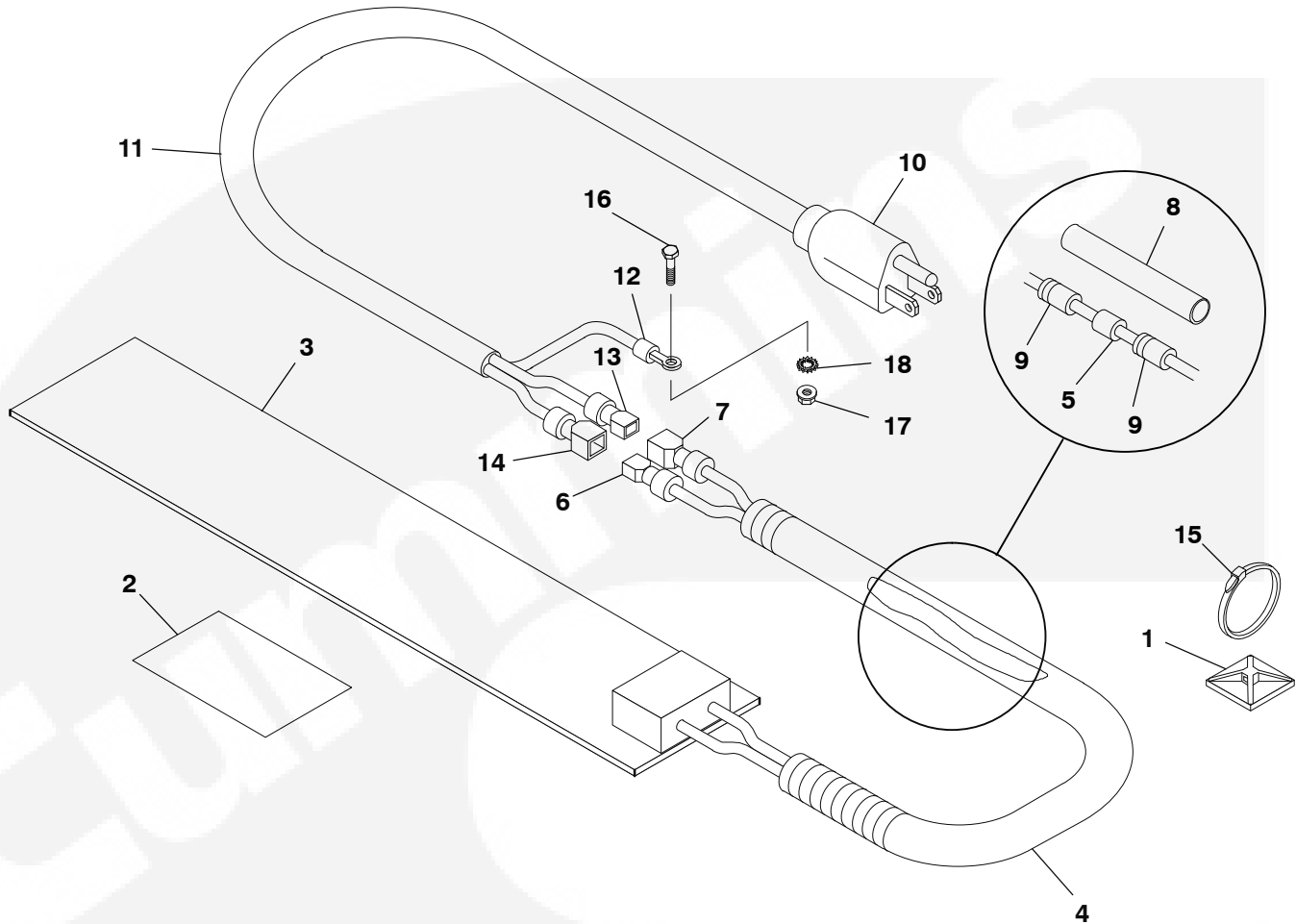
Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator, Generator	17	211-0256-02	1	Bell, End
	220-4614-06	1	4 Lead	18	220-2309	1	Stator, Exciter
	220-4615-06	1	6 Lead	19	509-0094	1	Seal, O-Ring
	220-4613-06	1	12 Lead	20	815-0194	2	Screw, Hex Head - Thread Cutting - W/ET (#10-32 x 3/8)
	220-4613-07	1	12 Lead, Full Output on Single Phase				
2			Rotor Assembly, Generator (Includes parts marked *)	21	232-2417	1	Board, Connection
	201-3602-06	1	149mm Stack Length	22	332-1355	2	Terminal, Tab
	201-3602-07	1	181mm Stack Length	23	818-0006	2	Rivet
3	201-3515-02	1	* Rotor Assembly, Exciter (Includes Parts Marked #)	24	802-0040-01	4	Screw, Cap - Socket Head (1/4-20 x 2)
4	358-0069	1	*# Rectifier Assembly - Positive	25	850-0114-05	4	Washer, Lock (1/4)
5	358-0070	1	*# Rectifier Assembly - Negative	26			Stud
6	853-0008	4	*# Washer, Lock - ET (#10)		520-0799	4	149mm Stack Length
7	813-0100	4	*# Screw, Round Head - Machined (#10-32 UNF x 1/2)		520-0800	4	181mm Stack Length
8	526-0008	10	*# Washer, Flat (#10)	27	234-0519	1	Baffle, Air
9	870-0131	6	*# Nut, Hex - W/ET (#10-32)	28	805-0015	6	Bolt, Place (.38-16 UNC x .75)
10	232-2826	A/R	* Disk, Rotor Drive	29	821-0010	4	Screw, Lock (.25-20 UNC x .50)
11	205-0258	1	* Fan, Generator	30	850-0114-07	4	Washer, Lock (.38)
12	510-0112	1	* Bearing, Ball	31	862-0026-07	4	Nut, Hex (.38-16)
13	526-0008	2	* Washer, Flat (#10)				
14	870-0131	2	* Nut, Hex - W/ET (#10)				
15	526-0399-42	6	* Washer, Flat (.38 Hardened)				
16	800-0519	6	* Screw, Cap - Hex Head (.375-16 x .75) (Special)				

* Parts Included in Generator Rotor Assembly

Parts Included in Exciter Rotor Assembly

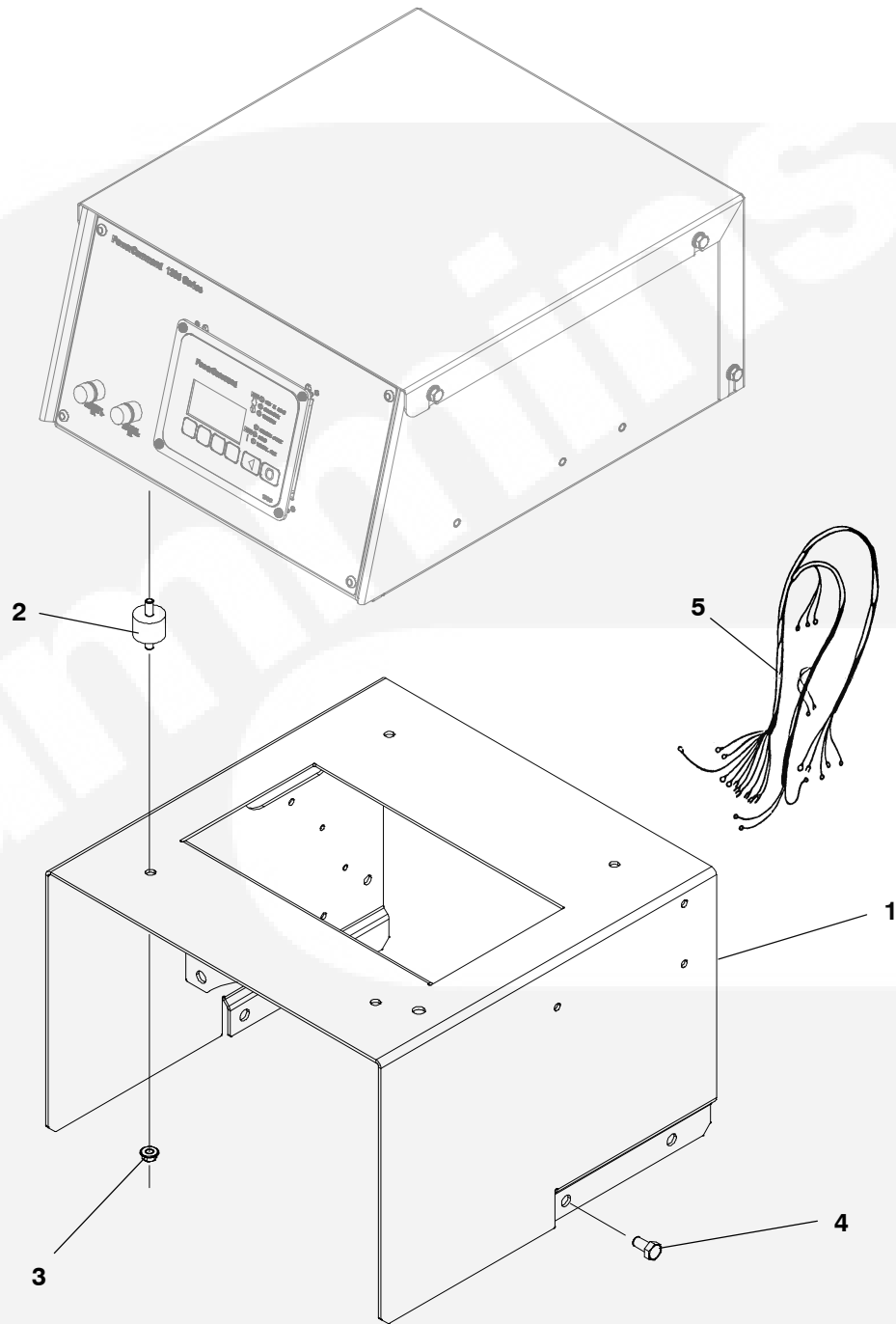
Control Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2420	2	Mount, Tie - Cable	12	332-2697	1	* Terminal, Ring
2	098-6195	1	Label, Caution	13	332-1992	1	* Terminal, Receptacle
3	333-0550-01	1	Heater, Control - 120 Volt	14	332-2430	1	* Terminal, Tab
4	898-1195-01	A/R	Sleeving, Convoluted	15	332-0942	3	Tie, Cable
5	357-0114	1	Rectifier, Power	16	800-0024	1	Screw, Cap - Hex Head (5/16-18 x 3/4)
6	332-1992	1	Terminal, Receptacle	17	870-0257	1	Nut, Hex - Self Locking (5/16-18)
7	332-2430	1	Terminal, Tab	18	856-0008	2	Washer, Lock EIT (5/16)
8	898-0860	A/R	Tubing, Heat Shrink				
9	332-1789	2	Splice, Window (18 Gauge)				
10	335-0173	1	Cable, Heater - Control (Includes Parts Marked *)				
11	335-0110	1	* Cable				

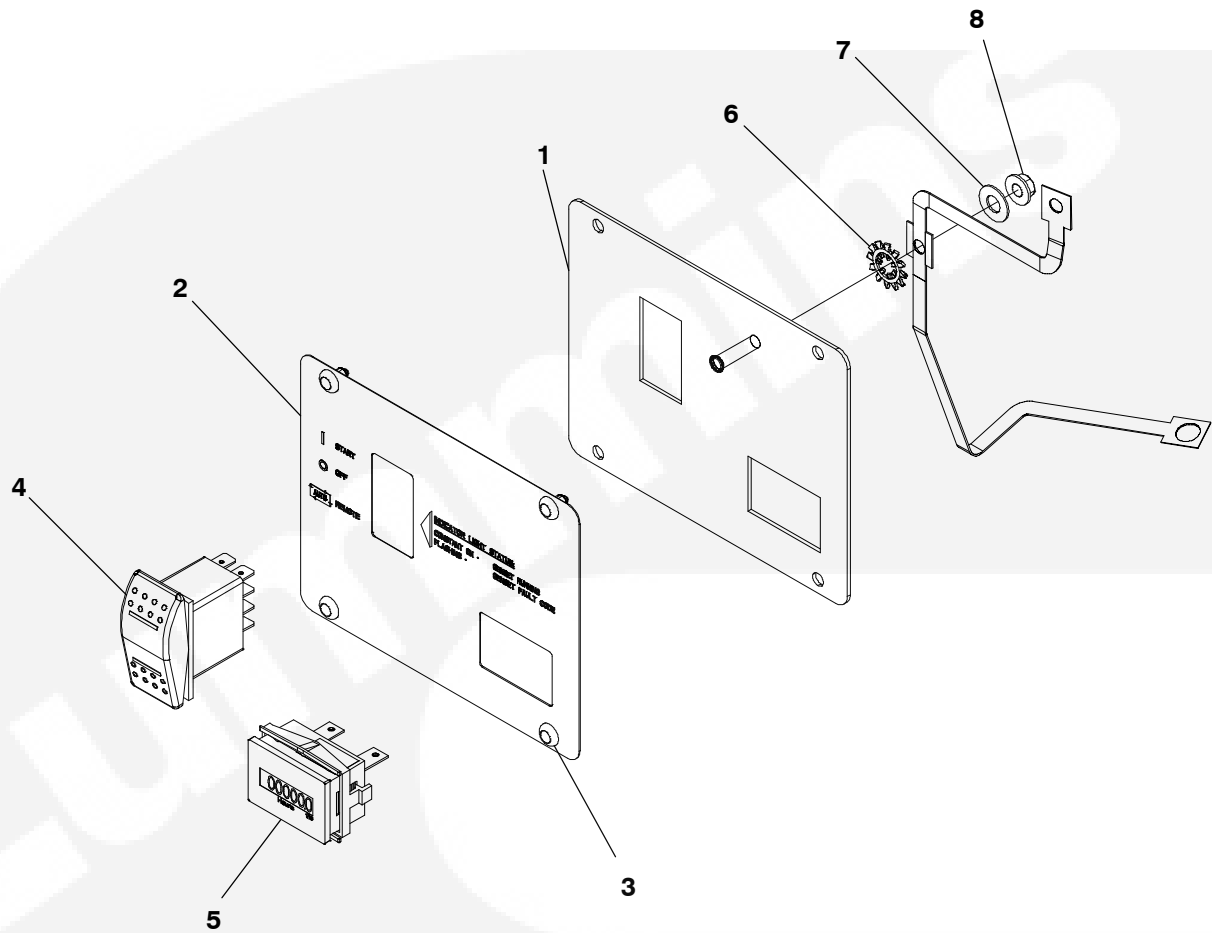
* - Parts Included In 335-0173 Control Heater Cable

Control Installation



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5688-02	1	Saddle, Control Box	4	815-0236	4	Screw, Hex Head - Thread Cutting (5/16-18 x 5/8)
2	402-0669	4	Isolator, Vibration	5	338-4620	1	Harness, AC (Voltage Sense)
3	870-2054	8	Nut, Locking - Flange (M6 x 1)				

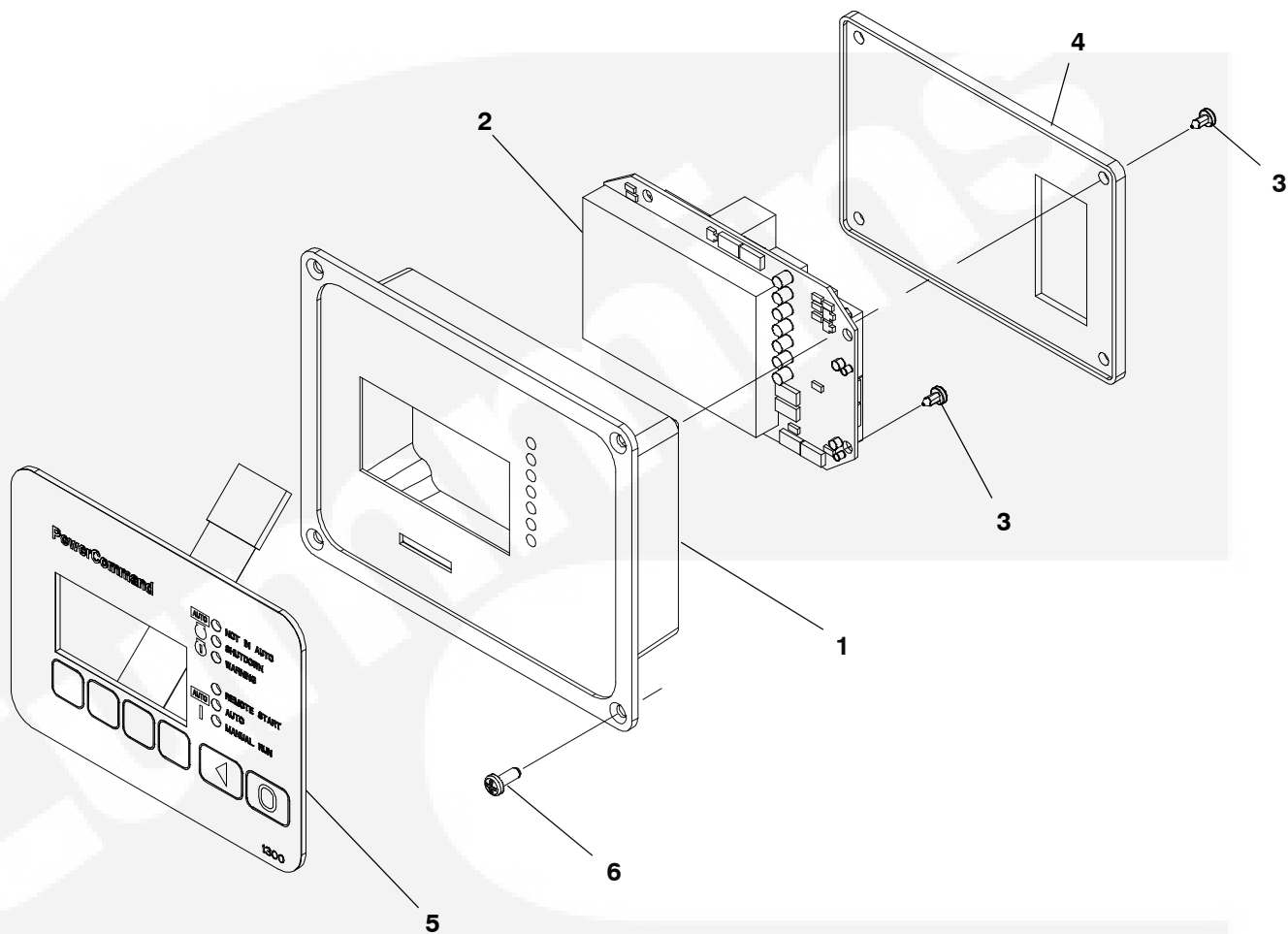
Control Panel Start/Stop



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-6003-02	1	Panel, Control
2	098-8378	1	Label, Information
3	818-1150-03	4	Rivet, Drive
4	308-1092	1	Switch, Rocker
5	302-2048	1	Meter, Hour

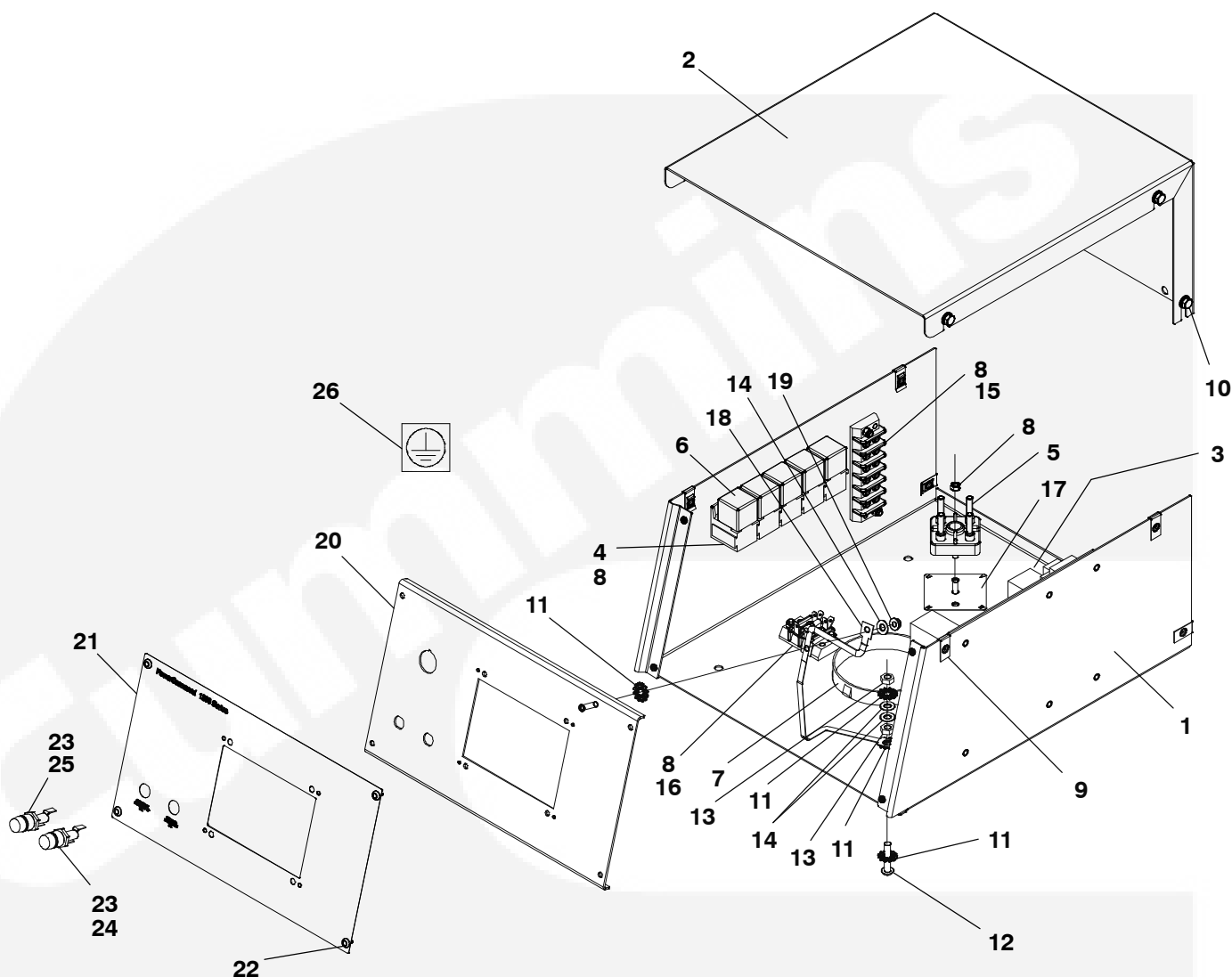
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	856-0006	1	Washer, Lock - W/EIT (1/4)
7	526-0052	1	Washer, Flat (6.75 ID x 14.30 OD x .8)
8	870-2065-01	1	Nut, Hex - Flange

Control Panel Display



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-4784	1	Box, Control	4	319-4786	1	Cover, Box
2	327-1566-04	1	Board, Printed Circuit - LCD	5	300-5876	1	Panel, Control - Membrane
3	823-0001-01	8	Screw, Pan Head - Thread Forming (M3 x 0.5 x 6)	6	814-2155-01	4	Screw, Flat Head - Cross Recessed (#3.5 x 9.5)

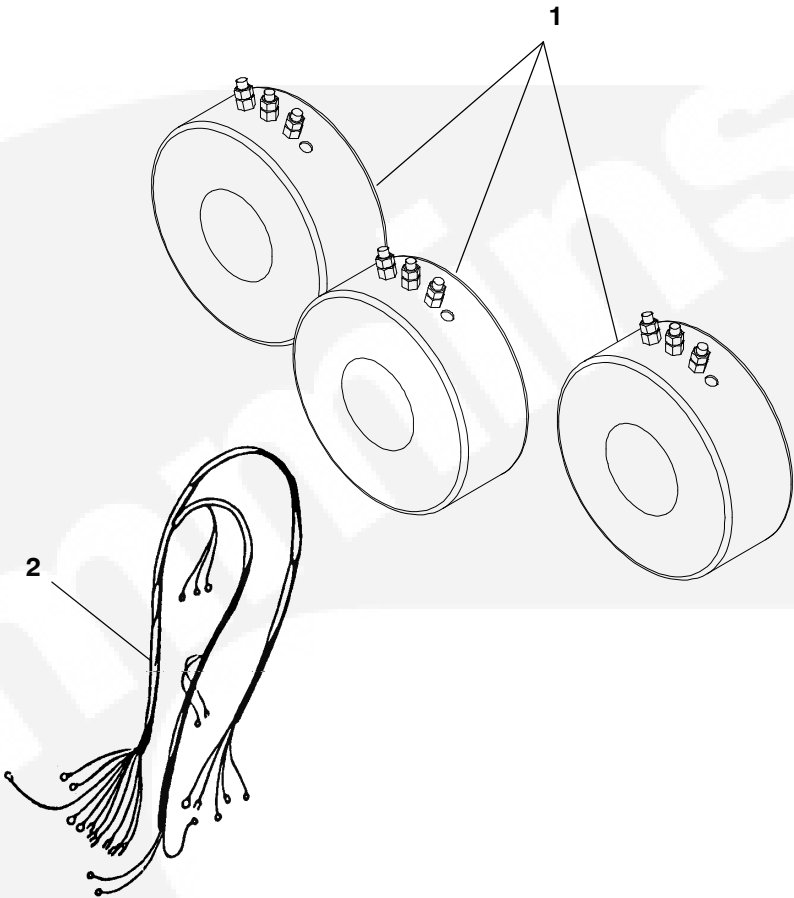
Control PCC 1301



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5671-02	1	Box, Control
2	319-5673-02	1	Cover, Control
3	327-1513-02	1	Board, Printed Circuit - Control
4	323-1563	A/R	Contact, Relay - 5 Pin
5	332-3249	2	Block, Terminal
6	307-2767	3	Relay, 12V - SPDT
7	508-1127	1	Bushing, Nylon
8	860-2006	15	Nut, Hex (M5 x .8)
9	870-2228	6	Clip, Nut
10	821-6002-03	6	Screw, Hex Head (M6 x 1 x 16)
11	856-0006	4	Washer, Lock - W/EIT (1/4)
12	810-0155	1	Screw, Round Head (.25-20 x 1.25)
13	871-0016	3	Nut, Hex (.25-20)

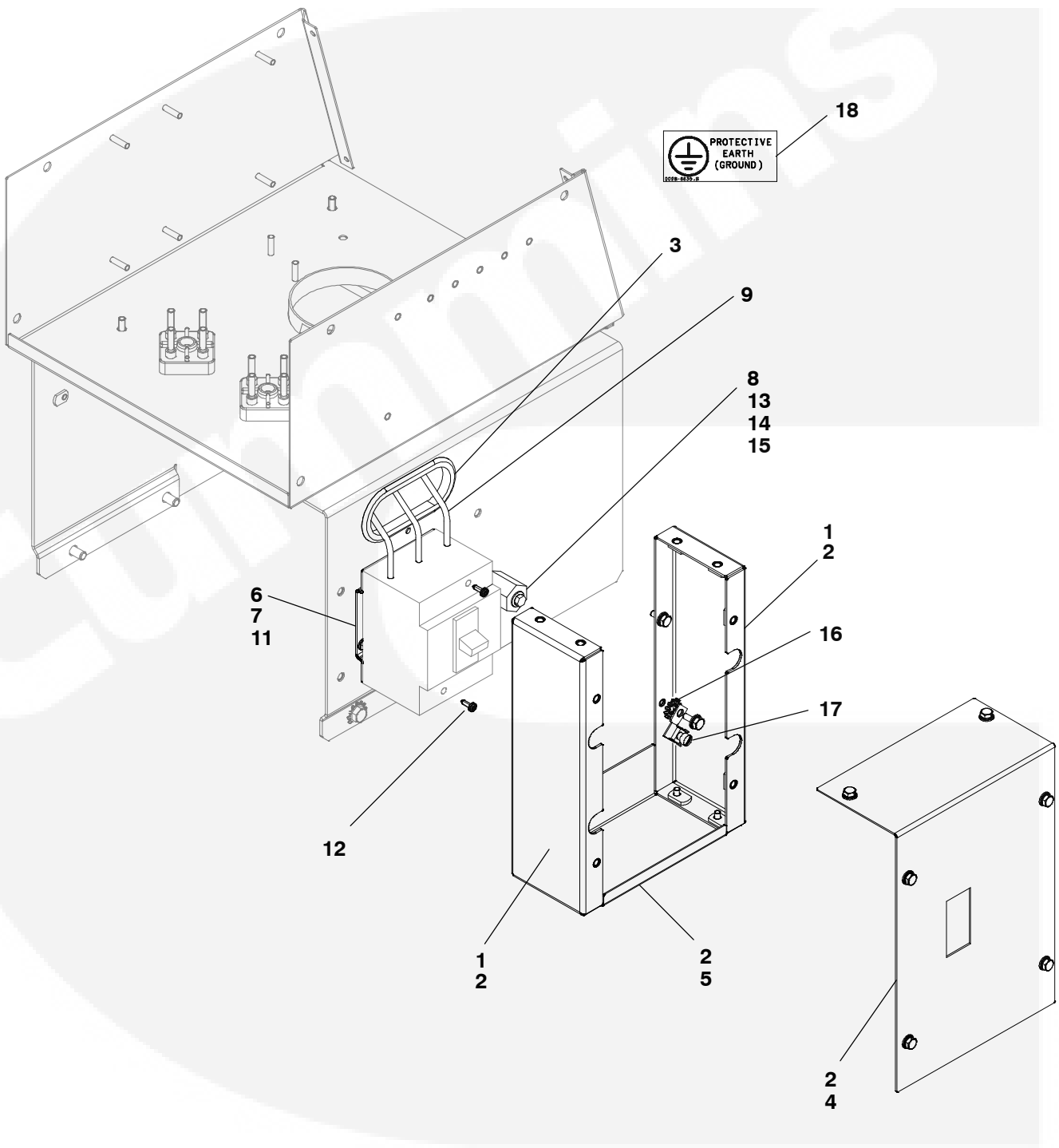
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
14	526-0052	3	Washer, Flat (6.75 ID x 14.30 OD x .8)
15	332-1218	A/R	Block, Terminal
16	332-4117	2	Block, Terminal
17	098-8380	1	Label, Information
18	337-3508	1	Strap, Bond
19	870-2065-01	1	Nut, Hex - Flange
20	319-5672-02	1	Panel, Control Box
21	098-8377	1	Label, Information - Control
22	818-1150-03	4	Rivet, Drive
23	321-0175	2	Holder, Fuse
24	321-0372-05	1	Fuse (10A)
25	321-0372-06	1	Fuse (15A)
26	098-6537	1	Label, Ground

Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current	2	338-4621	1	Harness, AC (Current Sense)
	315-1645-07	2	Single Phase, 12 Lead				
	315-1645-07	2	Single Phase, 4 Lead				
	315-1645-03	3	Three Phase				

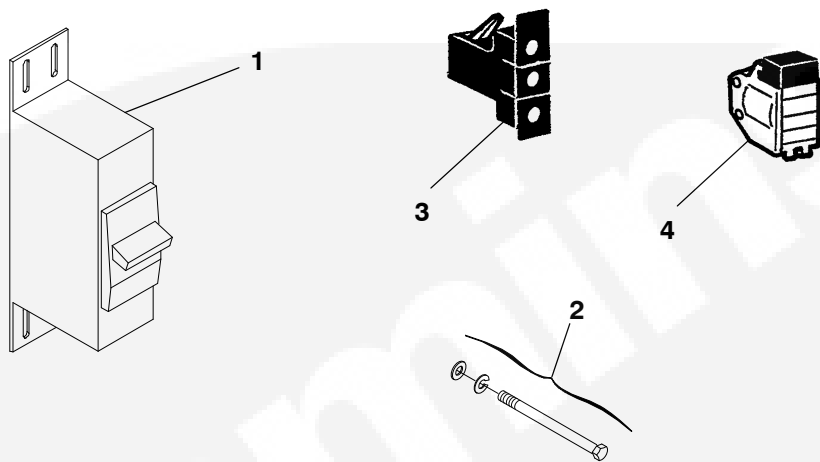
Circuit Breaker Installation



Circuit Breaker Installation

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5709-02	2	Panel, Circuit Breaker	10	091-0002	-	Strip, Copper - .01 LB (Not Illustrated)
2	821-6002-02	14	Screw, Hex Head (M6 x 1 x 12)	11			Screw, Hex - Flange Head
3	508-1090	1	Grommet - All Except NSF Circuit Breaker		815-0793-03	2	QOU Circuit Breaker
4			Cover, Circuit Breaker - Top		815-0793-03	3	NSE Circuit Breaker
	319-5710-05	1	NSF Circuit Breaker	12			Screw, Pan Head - Torx - Thread Forming (M4 x 0.7 x 12)
	319-5710-06	1	NSE Circuit Breaker		823-0002-04	4	QOU Circuit Breaker
	319-5710-07	1	QOU Circuit Breaker		823-0002-04	2	NSE Circuit Breaker
	319-5710-08	1	Service Entrance	13	821-0008	1	Screw, Hex - Locking (1/4-20 x 5/16)
5	319-5711-02	1	Cover, Circuit Breaker - Bottom	14	526-0052	1	Washer, Flat (6.75 ID x 14.3 OD x 0.8)
6	319-5714-02	1	Bracket, Circuit Breaker - NSE Circuit Breaker	15	821-0010	1	Screw, Hex - Locking (1/4-20 x 0.5)
7	319-5715-02	1	Bracket, Circuit Breaker - QOU Circuit Breaker, Service Entrance	16	856-0006	1	Washer, Lock - W/EIT
8	332-2370	1	Standoff, Insulator	17	332-0142	1	Terminal, Solderless
9			Lead	18	098-6635	1	Label, Ground
	226-4778-02	3	QOU Circuit Breaker				
	226-4778-02	4	NSE Circuit Breaker				
	226-4778-04	4	NSF Circuit Breaker				

Circuit Breaker

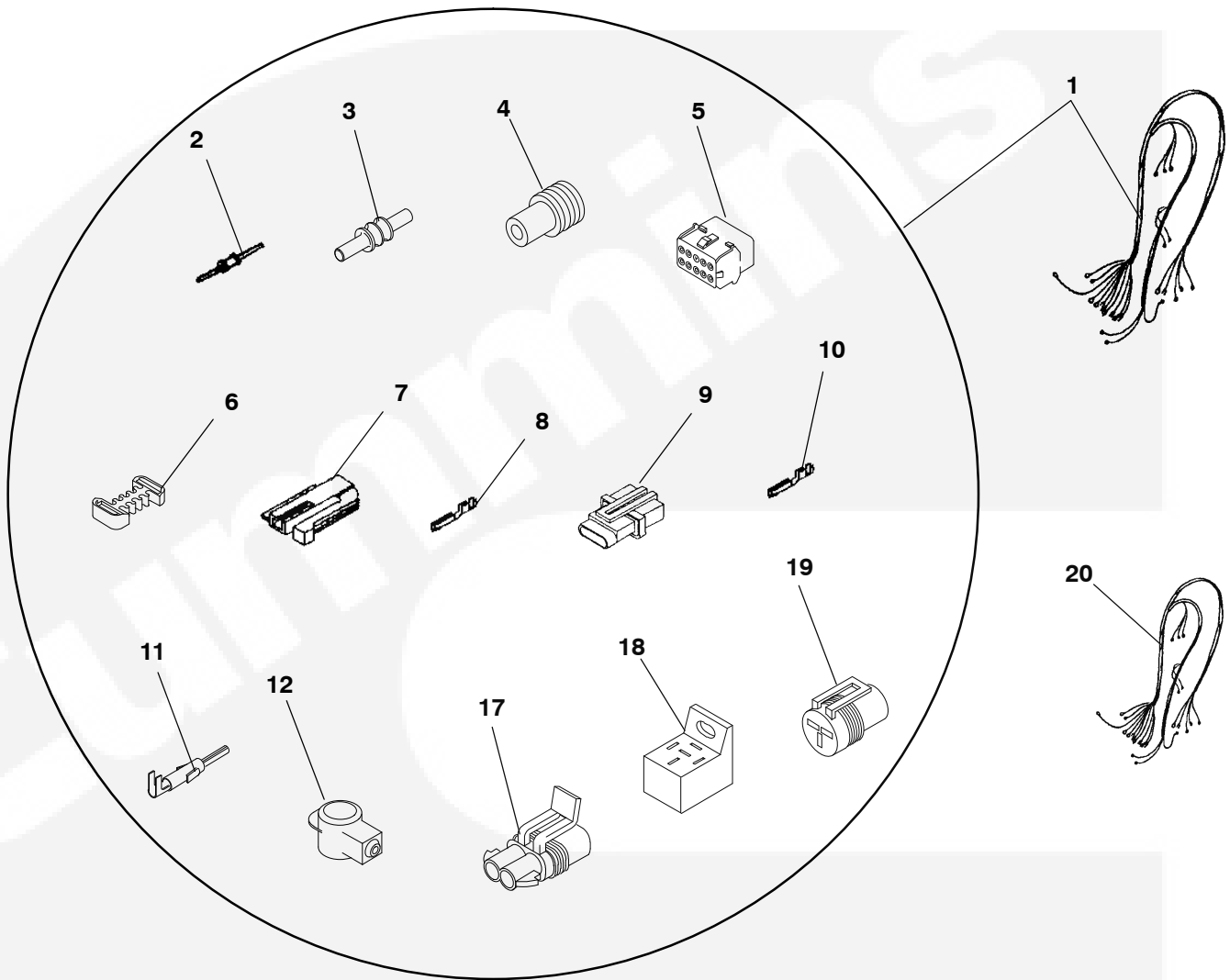


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit	2	320-1986-08	1	Package, Hardware – Circuit Breaker Mounting (Includes Screws, Nuts and Lock Washers)
	320-2006-03	1	2 Pole (UL)				
			90 Amp				
	320-2006-02	1	100 Amp				
			3 Pole (UL & IEC) (480V)				
	320-2009-08	1	* 40 Amp				
	320-2009-06	1	* 50 Amp				
	320-2009-05	1	* 60 Amp	3	320-1981-01	2	Switch – Used as Auxiliary Contact or Trip Alarm
	320-2009-04	1	* 70 Amp				
	320-2009-03	1	* 80 Amp	4	320-1981-02	1	Trip, Shunt (12V)
	320-2009-01	1	* 1000 Amp				
			3 Pole (UL & IEC) (600V)				
	320-1959-20	1	* 30 Amp				

* – Includes Mounting Hardware



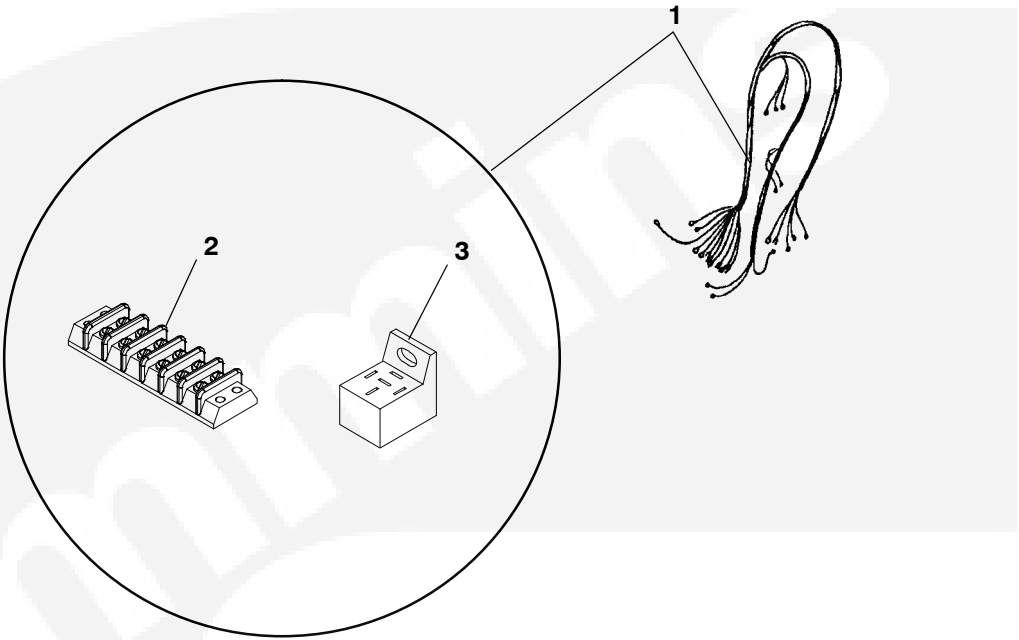
Wiring Harness Engine to Control and Low Fuel Alarm



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4521	1	Harness, Wiring – Engine to Control (Includes Parts Marked)	12	416-1021-02	1	Boot
2	350-0980	1	Resistor (510Ω)	13	323-2161	1	Plug – 24 Pin (P11) (Not Illustrated)
3	323-1712	6	Plug, Cavity (P8)	14	323-2009	1	Connector, Socket (Not Illustrated)
4	323-1708	4	Seal, Cable (P8)	15	323-2011	1	Connector, Plug (OPJ11) (Not Illustrated)
5	323-1710	1	Connector – 10 Pin (P8)	16	323-1818	2	Socket, Terminal (E2) (Not Illustrated)
6	323-1719	1	Housing, Lock (P8)	17	323-1755	1	Connector, Plug (E2)
7	191-2176	1	Connector – 1 Place (P7)	18	323-1563	1	Socket, Relay
8	191-2181	3	Socket, Contact (P6)	19	323-1666	2	Connector, Plug – 3 Pin (S7, E1)
9	191-2178	1	Connector – 3 Place (P6)				
10	191-2177	1	Socket, Contact (P7)				
11	323-1707	4	Socket, Contact (P8)				



Wiring Harness
Customer Relay



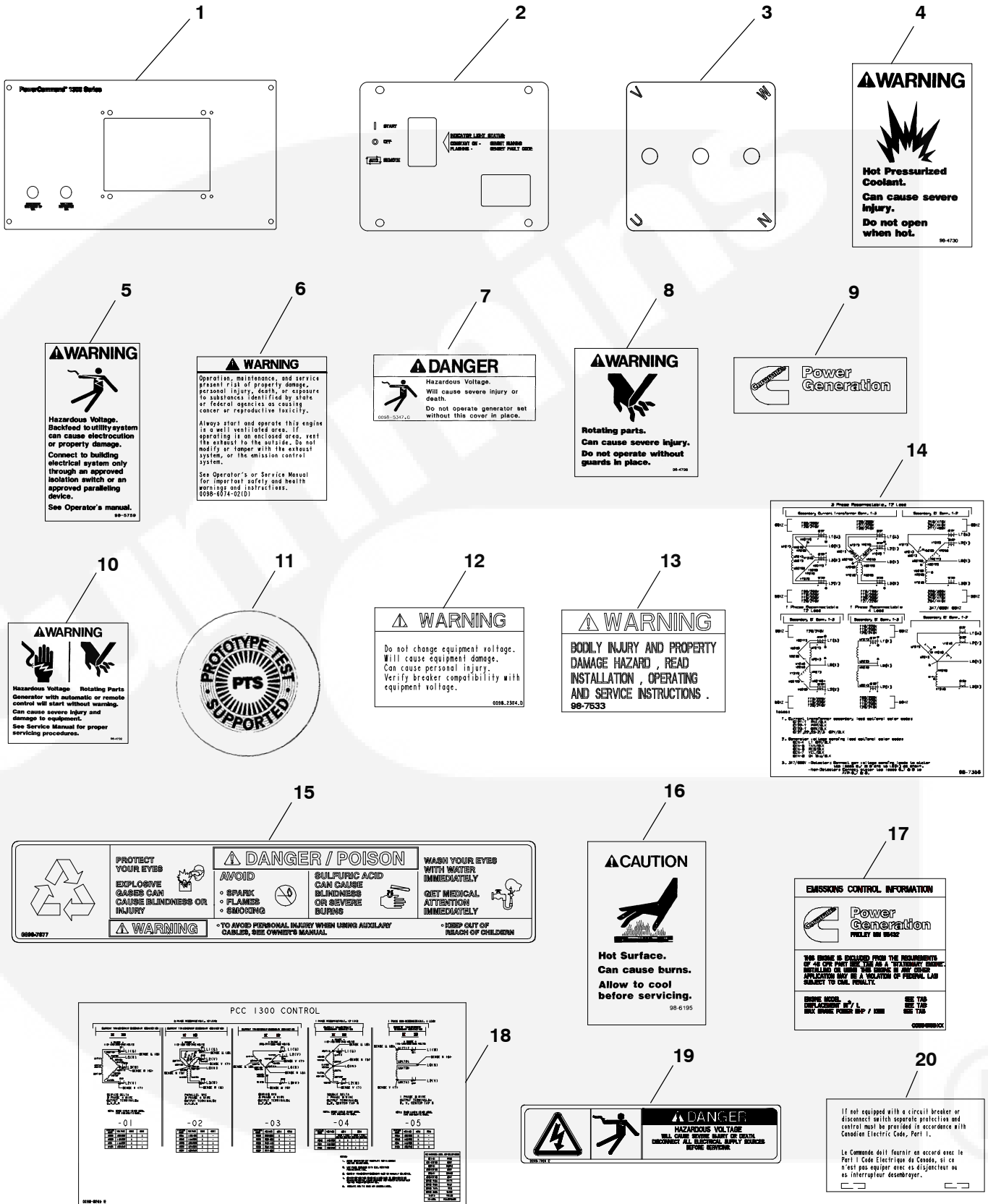
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-4636	1	Harness, Wiring – Customer Relay (Includes Terminal Block and Relay)	2	332-1218	1	Block, Terminal – TB10
				3	323-1563	2	Socket, Relay



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Labels



Labels

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	098-8377	A/R	Label, Information – Control	11	098-4500	A/R	Label, Prototype Tested
2	098-8378	A/R	Label, Information	12	098-2304	A/R	Label, Warning
3	098-8380	A/R	Label, Information	13	098-7533	A/R	Label, Warning
4	098-4730	A/R	Label, Warning	14	098-7356	A/R	Label, Reconnect
5	098-5759	A/R	Label, Warning	15	098-7877	A/R	Label, Battery
6	098-6074-02	A/R	Label, Warning	16	098-6195	A/R	Label, Warning
7	098-5347	A/R	Label, Danger	17	098-8198-01	A/R	Label, Emissions
8	098-4798	A/R	Label, Warning	18	098-8265	A/R	Label, Information
9	098-7902-02	A/R	Label, Logo	19	098-7904	1	Label, Danger
10	098-4732	A/R	Label, Warning	20	098-8445	1	Label, Information

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